VESTERIATE VESTERIA ELLO COMPLETA CONTINUA CONTINUA CONTINUA VIII Which Is Incorporated The Electragist



National Electric Products Corporation

National Metal Molding Division Pittsburgh, Pa.

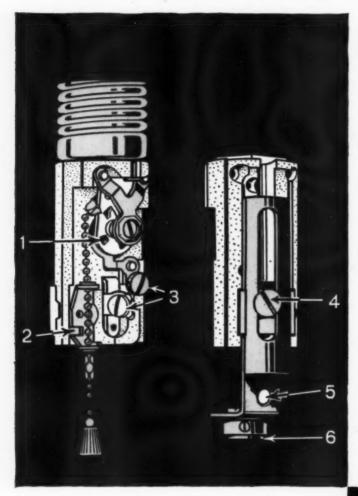


Circulation this issue 15,000 copies, in Contracting field

NATIONAL

Æ

Every feature of this New Hubbell Candle Socket



wins approval New simple mechanism .. Smoother actionLonger life ... Easier to install and wire

TUST take the new Hubbell Candle Socket and compare it with one of former design and construction. Then you'll know why every feature of the new socket is winning enthusiastic approval.

Compare the new tripping mechanism. Its extreme simplicity...smooth positive action... sturdy construction ... all show immediately why the new Hubbell Candle Socket will serve longer without mechanical trouble.

Note the design of the improved Hickey. See how it has been made to save wiring and installation time.

Some of the features of this new Hubbell Candle Socket are briefly described here. They will show why this socket will be demanded ... and why you should obtain samples and information, now.

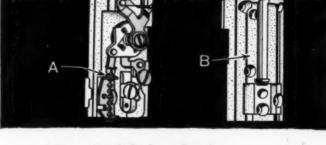
HARVEY HUBBELL, Incorporated BRIDGEPORT, CONNECTICUT, U. S. A.

An improved Hickey . . . easy to detach and adjust

Hickey has been redesigned for greater wiring ease and installation convenience. Note these features:

Easily detached from socket or adjusted by loos-ening one screw instead of the usual two. (See arrow No. 4.)

Hole provided for inserting screw driver to tighten on fixture. (See arrow No. 5.) Bushing for attaching to fixture has five full threads and set screw. (See arrow No. 6.)



New simplified mechanism smoother action—trouble-free

New tripping mechanismis smooth and positive in action—fibre segment engages commutator directly—(see arrow No. 1).

Stop for paper shell which can be depressed to take glass or fibre candle—(see arrow No. 2).

Binding posts on one side for wiring convenience (see arrow No. 3).

Ratchet and chain brought to complete stop when clasp reaches stop—no strain on fibre segment—cannot pull out—(arrow A).

A one-piece porcelain body for strength and proper alignment—(see arrow B).

Parts are riveted to porcelain wherever possible.



Electrical Contracting With Which Is Incorporated The Electragist

S. B. WILLIAMS Editor

Vol. 28

MARCH, 1929

No. 5

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RESALE PRICE

NEWS

The Resale Price Service will be found this month in the middle of the book. It was felt that this position would not only make it easier for our readers to use the section but would keep the section firmly in place. Last month we tried taping the back. It took too much time to fix the necessary three or four miles of tape to the inside of the covers.

There were exactly 400 price changes in this month's service, besides a few additional items.

In line with the advancing price of copper, wire prices are higher. See pages PL-26, 27 and 28 of the Resale Price Service in this issue for the new prices.

Type A surface cutout box prices, on the other hand, are low-er—see page PL-6.

Meter service switches—PL-20—show a small reduction.

Some slight changes have been made in metal moulding prices, PL-15.

For the first time, we are able to quote prices on the new sheathed cable containing the third wire for grounding, see PL-9.

Prices on several more sizes of park cable for 600 volts have been added, PL-28.

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7 jobs for which you should use Romex



ROMEX

- 1 Rewiring old houses
- 2 Wiring new houses
- 3 Wiring electric ranges
- 4 Wiring electric refrigerators where new circuit is necessary
- 5 Surface wiring of private garages and similar buildings
- 6 Extensions for additional convenience outlets
- Battery charger circuits and similar radio installations

If you would like to know of other places where Romex is superior, write for the latest Romex booklet.

ROME WIRE COMPANY
DIVISION OF GENERAL CABLE CORPORATION
Rome, N. Y.

ROME WIRE

FROM WIRE BAR TO FINISHED COPPER WIRE



Advertising Makes Price Service Possible

AMONG the many letters which we have received from electrical contractors praising our Resale Price Service, are a few which offer the suggestion that this section be punched for binding and perforated so that it can be easily detached from the issue. In other words, virtually a separate Resale Price Section is advocated.

While we appreciate the interest that has prompted these suggestions, the contractors in question have doubtless not stopped to consider that our price information if published and sold separately, would cost each subscriber many times the amount he now pays for his annual subscription. We are able to present a service such as this only through the co-operation of the manufacturers whose advertising appears in ELECTRICAL CONTRACTING.

AND since this advertising is obviously enhanced in value by reason of the continuous reference to the price section by the contractors, it follows that removal of the price section would lessen the value of the advertising space which the manufacturer buys.

ELECTRICAL CONTRACTING knew in advance that the actual cost of an editorial service as comprehensive as our section of suggested resale prices, would exceed the net return from contractors for subscriptions at \$2.00 per year. And this does not take into consideration the cost of the regular editorial section, which in ELECTRICAL CONTRACTING is far above normal.

WE were convinced, however, that a publication that would combine a practical service of such a helpful nature as our resale prices and in addition would prove a comprehensive editorial program along pictorial lines, would become so indispensable to the field that its tremendous value as a medium for the manufacturers' advertising, could not be questioned.

To the thousands of subscribers who already have come to look upon ELECTRICAL CONTRACTING as their most valuable asset and to those who day by day are discovering the importance of the service which we are performing, we would like to point out that the manufacturers who advertise in ELECTRICAL CONTRACTING, are, of course, trying to sell their products but in a larger sense, they are manufacturers who believe in the contractor and are making it possible for us to serve you.

It's NEW and BETTER

DURAFIEX DURAFIEX Armored Bushed Cable



Where it's New and Why it's Better!



This is the A. B. C. ANTI-SHORT Bushing An ample supply is furnished with every coil of Duraflex A. B. C.

A Better Cable — that is the keynote of Duraflex A. B. C. It means more profits to you, for this KRAFT ARMORED cable is quicker and easier to install and it is double-guarded against shorts.

No more troublesome stripping of over-braids. Just unwind the KRAFT ARMOR and snap it off. It breaks inside the steel sheath, far enough back so the ANTI-SHORT Bushing can be slipped between the conductors and the steel armor.

That is all—The end is ready for the outlet box. Quick, isn't it? And remember . . . the ANTI-SHORT provides additional tough insulation right where it is most needed.

For speed and safety on wiring jobs, specify Duraflex A. B. C. It's a Durabilt Product.

TUBULAR WOVEN FABRIC COMPANY, PAWTUCKET, R. I.

It's a DURABILT Product



Electrical Contracting With Which Is Incorporated The Electragist

March 1929

A MESSAGE

from

Ohn Wise
The Successful Contractor

EAR Mr. Editor:

I've been looking over this Price Service of yours pretty carefully for the past two months, and I certainly was shocked and disappointed not to find mention made of the most important item that goes into a bid.

I finally decided I'd better write you a letter about it. What I miss in these Suggested Resale Prices is the price the contractor should put on himself. I thought at first that maybe I'd find this price divided up under three or four headings such as brains, experience, know-how, advice, or some such, but it's not there anywhere.

Now, Mr. Editor, you ought to know that the contractor who doesn't figure himself into every bid is cheating his customer. What the customer wants is not a miscellaneous lot of supply items strung together into circuits. What he wants more than anything else is that thing we call "know-how."

And know-how is something that's always charged for. If you don't think it is, just try to get a little free advice from a lawyer. Or a doctor. Did you ever hear of any kind of a doctor, except some phoney quack, charging for medicine and throwing in the know-how for nothing?

Trouble with us electrical contractors is that a lot of us don't know how to charge for ourselves. We haven't got any Suggested Resale Prices for brains and experience.

And so I suggest to you, Mr. Editor, that you

work out some scheme so's these schedules will be included hereafter, something like this:-

SUNDRIES

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Type																		1	0	0)	E	31	rain-throbs
Dumb .																								\$0.02
Sluggish	i	4					 																	.03
Medium																								.44
Keen .																								3.77

Practical Experience

Type	Per Year
Thoughtless	 00001
Ordinary	 50
Wide Awake	

Undoubtedly, Mr. Editor, your expert calculators can work out complete schedules along this line, and I'm sure you'll realize what a great service it will be to the industry to give Suggested Resale Prices on such items as I've mentioned.

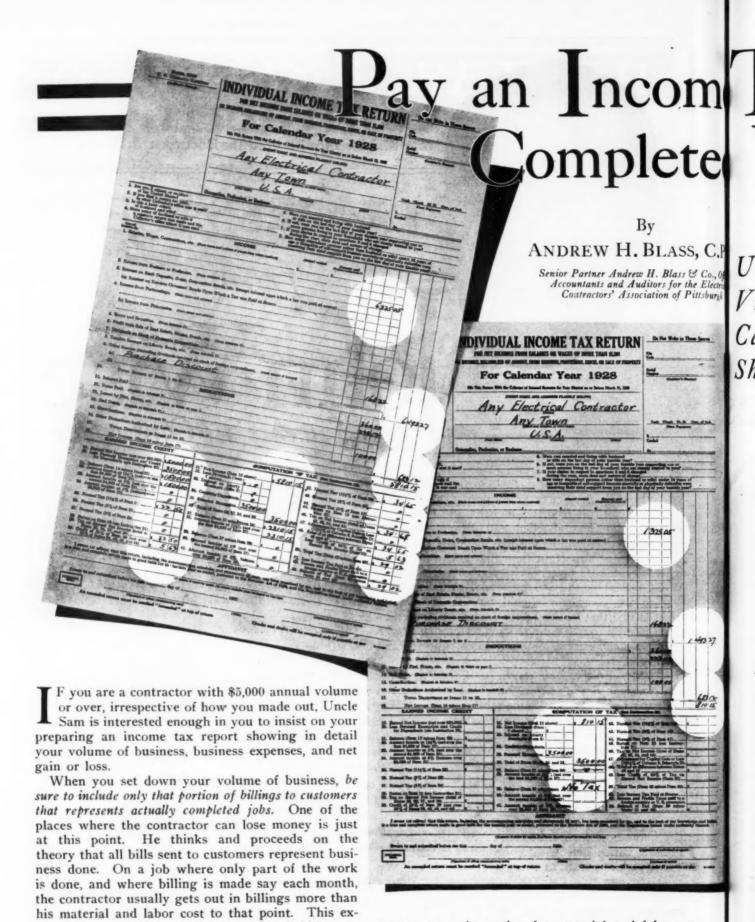
The only trouble is that some contractors are going to say that because their brains are home-made they hadn't ought to charge for 'em.

Well, if that's the kind of brains they've got, maybe they're right.

Then, of course, there's those who will bid on Medium Grade Brains and then substitute Dumb Brains. You'll have to warn these birds that while the inspector won't catch 'em, their customers may ask 'em to prove that they made good delivery.

Of course, this is all just a rough idea. But here is the main idea and I know it is a good one:

The contractor who doesn't charge a fair price for his brains, his experience and his know-how is price-cutting on the most important items. John Urise]



stance: treat the outlay for material and labor on uncompleted jobs as temporary investment the same as inventory. Consider your billings until the job is done in the nature of advances or loans from the owner. Let me have my share of the profits, if any,

cess is not a profit—yet if he reports all bills rendered as volume of business and all material and

labor payments as cost, he'll show a profit where in

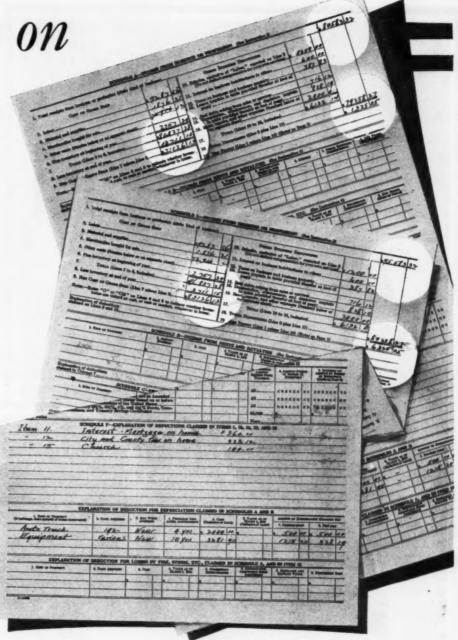
Uncle Sam is fair enough to say to you, in sub-

fact a loss may later develop.

Tax only on Work

Uncle Sam Will Visit You Shortly, Calling for His Share of the 1928 Profits

> By throwing work in progress into inventory, as in upper report, rather than income as in lower permits one to pay a tax only on profits actually received as shown in the reproductions of the fronts of the same two reports on the opposite page.



as, when, and if such profit is finally shown when the job is done and all costs assembled.

To illustrate this point there are presented here two tax reports for the same contractor for the same year. In the first one Mr. Electrical Contractor shows all bills rendered as business done, or sales; while in the second case he shows as sales only the returns from finished work. Note carefully that by showing his report the second way he pays no taxes, as the business failed to show a taxable profit. Except for the camouflage of name and figures the facts illustrated are taken from an actual case.

Also, play safe on inventories. You buy material sometimes for special jobs, at other times you buy in quantity and expect to use later. If the material is standard and usable, list it in your inventory at cost or present replacement price, whichever is lower. If, on the other hand, the material is obsolete, or not usable because of its special nature, list

it at scrap or sale value only. Don't fool yourself by saying that someday someone will have a job for you on which you could use that panel-board which was specially built for a job and then not used and which in addition is also out of date.

Don't forget that every business carried on on a credit basis has losses in collections. If you have long outstanding accounts, especially if there's any question as to the ability of the customer to pay, or controversy as to the amount, write these items off, as losses. This doesn't mean that you'll then give up all attempts at collection. It simply means that Uncle Sam is fair enough to say that he's not entitled to his share of the profits on a transaction where you can't get the money.

These are the major points to watch for in making your split of profits with Uncle Sam. Careful

attention to them may save you money.

CONTRACTING

STUDY the Fixture

Selling himself is an important part of Workman's scheme. He visits a house under construction and acquaints himself with the contractor and his work.

Passing from room to room every outlet is noted, with characteristics of the room in which each is located.

ELECTRICAL



With the layout in mind and his notes at hand he communicates with the owner, who is surprised at the caller's knowledge of the house and willingly makes an appointment for himself or wife to inspect the fixtures designed for the type of home planned.

G. K. Work man an was one of the most prominent contractors in Fort Wayne, Ind., but deserted his shop to become a fixture expert with a larger contractor, the Barth Electric Company. Realizing that a large number of the very small house wiring contractors were not handling any fixtures, Workman secured their good will so that now he not only sells the fixtures for all the houses his company wires, but a large percentage of those wired by contractors who do not handle fixtures.

Nine out of ten of the prospects landed are women, Workman says, and they insist on fixturing the house in which they must live to their own taste and convenience.



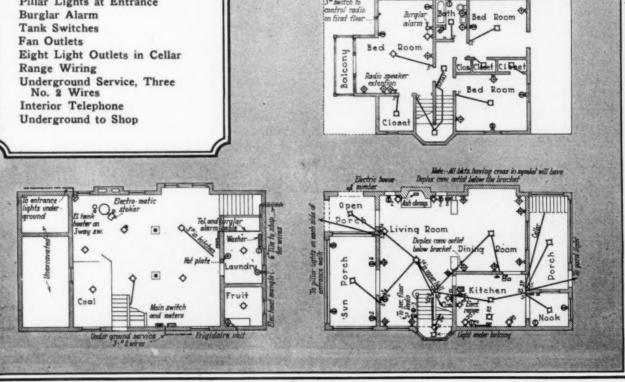
CONTRACTING

n a Progressive ontractor lis Own

Out of the Ordinary Wiring in Frazier's Home

Extra Light over Kitchen Sink Cellar Light Pilot Yard Light 3 and 4-Point Switch Control Electric House Number Radio Speaker Extensions 3-Point Radio Switch Control Closet Lights Pillar Lights at Entrance Burglar Alarm Tank Switches Fan Outlets Eight Light Outlets in Cellar Range Wiring Underground Service, Three No. 2 Wires Interior Telephone Underground to Shop

M. J. Frazier of Burlington, Iowa, Who Specializes in House Wiring, and His New Home with the Latest in Wiring Convenience. Frazier's Electric Home Is His Showroom Where He Takes Prospects



TRANSFORMER VAULT

The Second of a Series of Articles on Industrial Substation Layout and Installation. The First Article Covering the Subject Generally Appeared in the January Issue. The Construction of the Vault (Covered in the Current Article) While Done by Another Class of Contractor, Must Be Understood by the Electrical Contractor Because He Will in Many Instances Be Called Upon to Lay It Out.—Editor

Structural Requirements

By CLOVIS M. CONVERSE

Sales Engineer, G & W Electric Specialty Co.

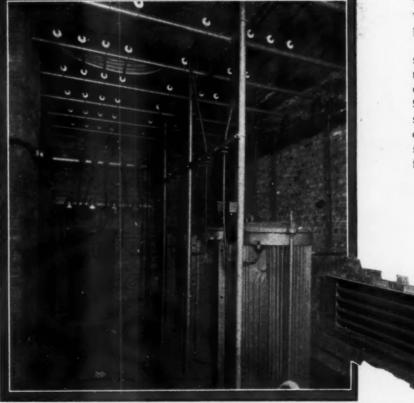
THE space or "vault" set aside for an industrial substation should if possible be above ground with natural light and ventilation. A basement room or the space under the sidewalk, however, is often the only place available and may be ideal if proper access and ventilation can be arranged. In any case a strictly fireproof enclosure must be provided. The National Electrical Code specifies a min-

imum of 6 in. for a concrete wall or 8 in. for a brick wall. Floor and ceiling must be fireproof, preferably concrete slab construction. Most cities have definite requirements in their building codes covering transformer vaults.

To cut down on the space for transformer vaults is a serious mistake as a crowded vault is dangerous to operate at any time and especially in case

of emergency. Furthermore such a vault leaves no provision for expansion which is often necessary and unexpected.

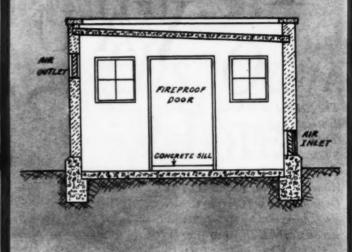
No fixed rule can be offered for the size of transformer vaults, but certain minimum requirements and suggestions can be given. A minimum height of 9 ft. should be maintained, the area should be sufficient to provide easy access to all equipment, leaving a clear space of at least 2 ft. around each transformer or other device. An aisle wide



Section of vault showing inlet opening with louvers and outlet in ceiling. Note the fireproof construction and good general layout of transformers and bus structure.

Transformer house. Note ventilation openings indoor and outlet in roof.

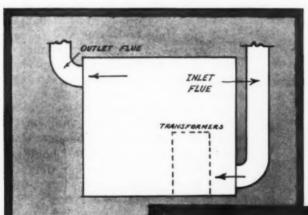
Suggestion for small separate transformer house.



enough to permit the convenient removal of any equipment must be provided. A minimum area of 200 sq. ft. and a minimum width of 9 ft. are fair requirements.

Access to the vault should be direct to a street or alley if possible. If not, then the vault should open into a hall or passage of sufficient width to provide for the installation of equipment and its convenient removal. Basement vaults can sometimes be provided with a manhole frame and cover therefor.

The access door whether inside or outside, must



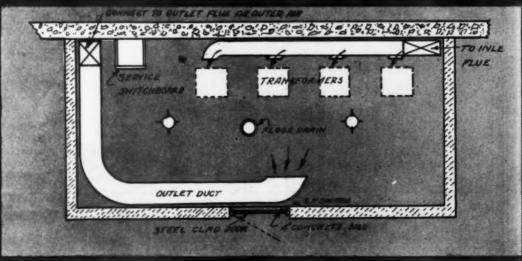
be of high grade fireproof construction, either sheet steel or steel clad of approved construction. Obviously locks must be provided to prevent unauthorized persons from entering. Often a hasp is provided and the utility supplies its standard padlock. It is suggested that approval of the door specifications be secured from the local inspection department. The door should be at least 4 ft. by 7 ft. in size and larger if necessary to provide for removal of equipment. Door must swing outward and the door opening provided with a fireproof sill at least 4 in. high.

The floor of the vault should pitch, at least ¼ in. to the foot, to a 10 in. floor drain centrally located. If this outlet for drainage is close to sewer level a backwater valve should be used. Where no drain can be installed, the door sill must be high enough to retain all the oil from the largest transformer.

Ventilation is a vital necessity and is more im-

Diagram of ideal ventilation for small vault.

Plan of transformer vault with inlet for each transformer. Suitable for either natural or fan ventilation.



ELECTRICAL

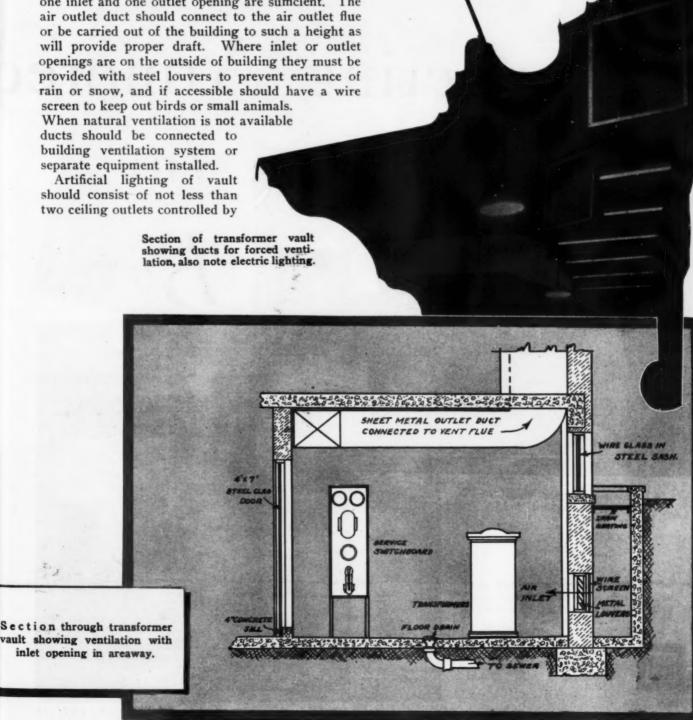
portant than many points previously mentioned. Sufficient fresh air must be provided to maintain the normal operating temperatures of the transformers and also to keep the vault dry. Sizes of ventilation openings and vent ducts will depend on transformer capacity and to some extent on the size of the vault and the duct arrangement. Obviously a small crowded vault will require more fresh air than a large open vault. A good rule is to allow a minimum of 3 sq. in. of duct section for each kilowatt of transformer capacity, no duct to be less than 1 sq. ft, in area. The ideal arrangement provides an air inlet duct not more than 1 ft. above the floor with openings behind each transformer, the outlet to be on the opposite side of room and not more than 1 ft. below the ceiling. In many cases in smaller vaults one inlet and one outlet opening are sufficient. The air outlet duct should connect to the air outlet flue or be carried out of the building to such a height as will provide proper draft. Where inlet or outlet openings are on the outside of building they must be provided with steel louvers to prevent entrance of rain or snow, and if accessible should have a wire screen to keep out birds or small animals.

ducts should be connected to building ventilation system or separate equipment installed.

Artificial lighting of vault should consist of not less than two ceiling outlets controlled by

switch near entrance door. Outlets to be equipped with weatherproof fixtures, enameled steel reflectors and 100-watt lamps. Larger vaults will require additional light outlets. One or more plug receptacles should be installed, located conveniently for attaching portable inspection lamp, the wiring to be done in conduit in approved manner and connected directly to transformer secondary bus through a 30 amp. fused safety switch.

Discussion of the points brought out in this article with the owner or his architect when plans are being made, will often pave the way for the electrical contractor to secure a satisfactory and successful electrical job, with little or no competition.



Right and Wrong

Ways of

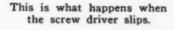
Connecting Armored



To

Boxes

A common practice when working up against the ceiling.





ELECTRICAL



Happiness Preferred

Spending for Employees' Comfort is a Good Investment, According to Harry Binder of Omaha

PROVIDING better conditions for wiremen is not exactly a new departure, yet the experience of a contractor who has gone the second mile with his men should encourage those employers who have honestly tried to better conditions for their help, only to become discouraged because of obstacles or lack of gratitude.

Harry Binder, head of the Harry M. Binder Co., Omaha, Neb., started soon after he entered business to do more for his men than was legally required of him. While there had to be a humanitarian motive back of it all, Mr. Binder says it is not philanthropy but sound business, an investment that eventually returns a dividend in the shape of better work and more profit.

Granting that there is conscience and a desire for fair dealing on both sides, there is no denying the fact that the most important feature in the relations of the contractor and his men is the well-known payenvelope.

Wiremen are paid by the hour and ordinarily this pay stops when the work in hand peters out or is postponed. Thus a man may report in the morning, after travelling some distance to the job, carrying a lunch prepared by his wife and all set for a day's work. Then something happens to hold up the work. He goes home in the middle of the day, (Continued on page 120)



Harry M. Binder

The kind of men who respond to fair treatment. Binder's three foremen: Left to right, Art Cronemeyer, Bill Ratliff and A. C. Krell.



ELECTRICAL



Mr. Kelly demonstrating a kitchen unit to a customer. The partition is fitted with a duplicate of an ordinary window, allowing the prospect to judge appearance as well as efficiency.

Demonstration
Sells Ventilating
FANS for KELLY

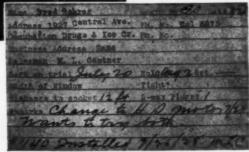
A simple yet effective system for building ventilating fan business has been developed by E. B. Kelly & Co., Minneapolis electrical contractors. In addition to providing up-to-date outfits for demonstrating, a record is kept showing the day-to-day saleswork on all styles of fans.



Portable demonstrating outfit closes sales. J. R. Abrahamson, one of the salesmen, starting out with the demonstrator, which was designed and built in the company's shop. It is made of wall-board, brass-bound, with a suit-case handle and legs taken from display boards. The fan can be quickly removed and another inserted.

Blackboard record in office provides constant stimulant to salesmen. On the hooks opposite each salesman's name are cards showing demonstrations and fans on trial but not sold and in another space those closed.

CONTRACTING



This card (here shown) is made out in triplicate. One for the board, one for the salesman to make entries on and one for the office, which is filed when sale is completed.

Keeps Estimating



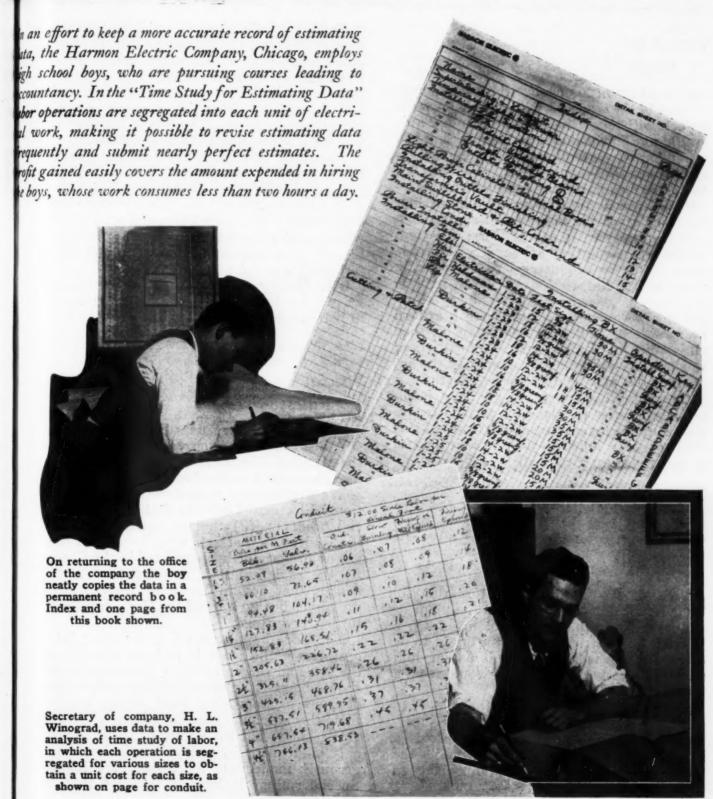


Foreman points out the kind of work the men have been on during the day. The boy, who each day acquaints himself with the work to be pursued the following day, observes closely.

With the foreman looking on, boy makes crayon mark on layout showing exact location of completed work. He is taught precision in this operation.

ELECTRICAL

Data Up-to-Date in High School Boys



Electrical Contracting With Which Is Incorporated The Electragist

S. B. WILLIAMS Editor

Yessed to Death

ALL salesmen know that the hardest person in the world to sell is the fellow who agrees with everything you say. He kids you along and makes you believe that you are going to get a nice fat order but in the

end all you get-is nothing.

We are beginning to wonder if the industry sales promotion program, and with it the trade extension institute for contractors, isn't being yessed to death. First, the committee meets and they are for it. The trade press is for it. Industry leaders speak in favor of it. Associations favor it. A sum of money is raised for a preliminary study and a report made. Rumors are heard on every side of large sums to be spent, then all is quiet and rumors come of smaller and smaller and still smaller sums. Is the industry sales plan being yessed to death?

Certainly the sums that are now being mentioned offer no place for a trade extension institute for electrical contractors. Has this, too, been lulled to sleep in that blissful

game of yessing it to death?

Industrial Plant Maintenance

ONE of the worst competitors that an electrical contractor has is the plant or factory electrician. He is holding down a job that an electrical contractor ought to be doing and the factory owner is paying him more and getting less than he would from a contractor.

Figure it out! The contractor's job is to make a profit on labor. Therefore, he supervises labor and sees to it that there is a reasonable production. Who supervises the factory electrician? He doesn't have to make a profit on his job.

Frequently, the plant electricians are men who can't stand the competition of holding down a job with a contractor, where good work and production counts. Certainly all they know is the mechanics of wiring, and little or nothing about the economics or engineering of wiring. They have nothing to pay for if something they do goes wrong.

The most efficient manufacturing group in the world is that producing automobiles. Almost all of the automobile plants in Detroit have switched from factory electrical departments to electrical contractors for wiring and maintenance. Why? Because the electrical contractor does the work better, quicker and for less money.

The factory electrician is an economic waste. Look into this field. There's money

in it if you know how to sell it.

Special Rules

WE stand for standardization; but we also stand for progress. We believe in the National Electrical Code; but we recognize that it is a code of minimum safety.

We deplore any departure from the National Electrical Code (1) that calls for special products, (2) that is contradictory to the Code, (3) that sets up a barrier to the use of any product as permitted in the Code. At the same time we applaud local ordinances that commit none of these transgressions, but go beyond the Code in calling for better wiring.

The Code builders need local testing laboratories if the Code is to keep abreast of the art, and therefore every encouragement should be given to those localities which are desirous of improving local wiring conditions through such special rulings.

We know that the wiring of today is not only inadequate for today's needs, but dangerously inadequate for tomorrow's loads. Special rulings looking to the load that is

going to be placed a few years from now on the wiring installed today is, to our way of looking, a far-seeing, broad and progressive action.

It is our hope that we may soon see No. 14 wire banished for branch circuit purposes and that no service smaller than three No. 6's will be permitted.

These improvements may cost a little now at the start, but they will not act as a hurdle to future development of the industry as is now the case, particularly with ranges.

Get Behind Detroit Credit Plan

THE Detroit Credit Plan has taken root in the East. New York City is about to put it in operation as is also Newark, N. J. Boston is more than interested. Numerous other places are considering the plan and we urge the contractors in every important city to lose no time putting it into effect.

Already there is opposition to the plan from other interests, for one reason or another, but we rather think that the basic reason for opposition is prompted, not by any desire to help the situation, but by the fear of decreased volume.

The Detroit Credit Plan, or some similar credit plan, is the legitimate contractor's only salvation. Cut-throat, below-cost competition cannot survive "30-day credit," or "cash." Speculative builders cannot finance their operations on sub-contractors' money if the latter have to pay their bills promptly.

When properly administered the Detroit Credit Plan works, and we urge the contractors in every important center to insist on its adoption. If there are certain jobbers who prefer to regulate their own credits, let them do it with such contractors as are unwilling or unable to pay promptly.

A Message to Electragists

ORGANIZATIONS are for the purpose doing for each other collectively what the individual would like to do but can't do alone. The strong associations are those which hold to this purpose. Associations which wander away from this purpose become impotent.

The policy of being a good fellow, of trying to "play the game" with the rest of the industry, has been absorbing most of the strength of the Association of Electragists. It has been spending too much of its time up blind alleys.

It is time for the Association of Electraagists to turn over a new leaf. It needs to spend less time in contact with the industry and more time in contact with its members. It needs a new program—a new objective.

The contractors of this country can expect nothing from the electrical industry nationally. Any policies that other national bodies may enact have no weight except as their own members may accord them in their own localities. The solution of the contractors' problems, therefore, is a local matter and their national organization, consequently, must be set up to help them organize locally in a way that will be profitable to the contractors.

Local problems are not all different.

Therefore, there are problems that the national organization can solve once for all the locals.

We therefore urge the Association of Electragists:

- 1. That it withdraw from all electrical industry alliances and industry conference work and devote all of its time, money and energy to the interests of its members only.
- 2. That it vote to tackle one or two problems of the electrical contractor each year and let nothing prevent it from finishing those problems.
- 3. That it set apart a certain large amount of its time and money for the purpose of helping local chapters to organize in a way that will be of real benefit to the members.
- 4. That the staff and officers be required and pledged to make more contact with members to the end that members, by a better understanding of the work and policies of this national body, become proud of membership.

Today the Association of Electragists is out of debt—for the first time in years. Its membership is the strongest ever.

Let it no longer be a cat's-paw for friendly organizations. Nor let it carry any longer the burden of accounting for the sins of the contracting industry. Let its sole job be that of working for its members and helping them get what they want, when wanted.

Code Chats

A Monthly Discussion of Wiring Practice and Questions of Interpretation, Presented with a View Toward Encouraging a Better Understanding of the National Electrical Code

Conducted by F. N. M. SQUIRES

Assistant Chief Inspector, N. Y. Board of Fire Underwriters

Electrical Fires and Their Causes

Below is a partial list of electrical fires reported by the electrical bureau of the New York Board of Fire Underwriters as occurring in the City of New York during 1928. These fires are compiled from the records of fires for which alarms were turned in to the city fire department. The fires included in this list are only those whose origin have been proved to be electrical beyond any doubt.

The largest of those shown, both numerically and financially, is one for which there is no defense and one which is to be condemned the most-"Flexible cord used for circuit work."

Flexible cord as here described is clearly a serious violation of the Code and is probably the one condition most damned by all inspectors. This violation of Code rule 614-a is the one which probably is the most frequently found by inspection departments and the one for which most of the buildings which are rated electrically defective are paying the highest unsafe insurance charge, as this defect is considered most dangerous.

Crowding Wires

Our contentions about the dangers of crowding wires together being hazardous are borne out by the figures for losses for "conductors in gutter space." The Code allows but nine wires to be grouped together in a conduit but in the gutters of panel boards and of cutout boxes we often find great tangles of wires. We have, in these columns, objected to excessive numbers of wires in junction boxes and a return to normalcy. Many introughs and the condition mentioned here should be included.

Next we notice "Heating of armor of interior cables." Let us hope that from this the cable manback to a heavier armor. Let us respectfully remind them that the war is over and of the necessity of

spectors have for some time been calling the light armor of the present cables "heater coils."

Next note "Fuse operation." Would this item have been here if ufacturers and the Laboratories the future 0-15 ampere non-tamwill recognize the need of getting perable fool-proof fuse had been in use? Possibly a few of these were from fuses of heavier types but had the Code faithfully been ad-

Record of Electrical Wiring Fires in New York City in 1928

	FIRES	LOSS
Contacts defective	21	\$ 769.00
Conductors in conduit	12	2,625.00
Conductors in gutter space		11,835.00
Conductors exposed to moisture		353.00
Conductors in wood moulding	3	226.00
Cables armored: Current entering building over the		
service conduit hence to interior ground con-		
nection	2	200.00
Heating of the armor of interior cables		5,852.00
Disturbance in equipment during thunder storm		2,500.00
Disturbance in rear of elevator panels		811.00
Disturbance in telephone switchboard		75.00
Fuse operation		1,914.00
Flexible cords: Free in the air as pendants		51.00
Used on chain fixtures	6	135.00
Used on floor lamps and hand portables		1,155.00
Used for circuit work		47,261.00
Used on pressing irons		233.15
Motors and Generators: Disturbance in winding		8,564.00
Motor Sparks	24	13,682.00
Domestic refrigeration		1,310.00
Radio: Receiving sets		18,444.00
Receiving sets during thunder storms		685.00
Short circuits: Accidental	38	9,031.00
Elevator cables		1,874.60
Sockets and receptacles		1,018.00
Splices at outlets		1,958.00
Christmas tree sets		5,525.00
Electrically operated toys		8,276.00
Signs: Incandescent lamp type	12	952.00
Gas filled glass tube type	6	3,625.00
Transformer in vaults	27	1,000.00

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District Offices: Atlanta, Georgia Baltimore, Maryland Boston, Mass. Buffalo, New York Cincinnati, Ohio Cleveland, Ohio Dallas, Texas Denver, Colorado Detroit, Michigan Indianapolis, Ind. Jacksonville, Florida

We have a new catalog about ready to mail. Get your name on the list for one. Decidedly worth while. Company 4603 Fullerton Avenue

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hered to in the use of these, we dare say this item would have been very small.

Ninety-two fires were laid to "Motors and Generators. Disturbance in winding" show the need of better motor protection as required in the later editions of the Code. We must remember that there are lots of motors which were installed before these requirements became popular.

"Motor sparks" shows the need of screening the hand holes on the commutator or ring end of motors -also the necessity of "house cleaning" around motors.

The next item, "Domestic Refrigeration," is one which is assuming alarming proportions. Due to the large amount of smoke given off when disturbances in refrigerator motors are taking place, they are quickly discovered and, therefore, so far, the losses have not been very heavy. But some safeguard is very much needed here and we believe that the small circuit breaker is the safeguard needed and that it will be required before very long.

Radio Hazards

The next item immediately following is "Radio Sets." This is one which will bear watching. With the increase in the popularity of the "electric radios," we must watch out for all kinds of troubles-abuse of flexible cords, poorly ventilated wooden cabinets, containing transformers, tubes, chokes, etc., which develop considerable heat, poor insulation for the voltages encountered, etc., and now with the "remote controlled" sets with their wiring installed by the average "radiotrician," whose Code knowledge is limited to the requirement for a lightning arrester on an outside aerial, our hands are going to be full.

Under "Short Circuits" we find thirty-eight listed as accidental. There is nothing to indicate that the rest of the one hundred and sixty "shorts" were intentional but are at a loss to know just how to discuss these thirty-eight. But "Splices at outlets" is clearly a Code matter. If these splices had been properly insulated and had been given sufficient room in the outlet boxes, these disturbances

should not have happened. Maybe tor is grounded to a continuous the inspection department should be more strict about the quality of tem at two or more locations, the tapes used. Let us hope also which locations are not to be in the that the requirement of 11/2 in. same building. This, of course, redepth for all outlet boxes will help fers to A. C. systems only, as a to alleviate this condition.

Elucidation of Grounding Rule

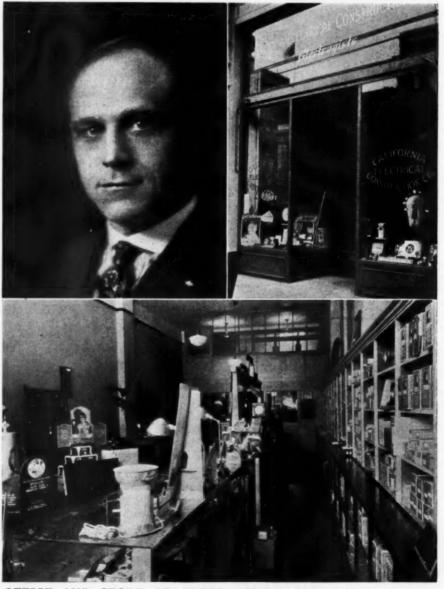
A question has arisen as to the interpretation of Code rule 905-C.

This first says that the copper conductor used to ground the system may be used to also ground the service conduit, service cable sheath, equipment, and the like, providing that this copper conducmetallic underground piping sys-D. C. system does not have a system grounding wire in each prem-

By "equipment and the like" is meant the armor of conduit, armored cable, metal moulding, electrical metallic tubing, etc.

"Copper conductor" is mentioned above because rule 906-A requires that copper be used for grounding a wire of the system, though the grounding conductor

(Continued on page 119)



OFFICE AND STORE OF ELECTRAGISTS' PRESIDENT:-Clyde L. Chamblin, president of the Association of Electragists is a successful contractor-dealer in San Francisco, Cal. He takes pains to make the new store and offices of his company, the California Electrical Construction Co., a model for a moderate size business. His contracting offices, it will be noted, are at the back of the store on a mezzanine.



Even if it were possible (and it isn't) it would mean above all else delay and possible loss.

Particularly on the larger jobs, panelboard—and switchboard—details are especially complicated. Fortunately you are never involved in this needless and almost endless detail, for there are thirty district offices, centrally located, ready to serve you.



The Panelboard man, in the Didistrict office near you, will clear your desk of panelboard worry. He will furnish data, detailed estimates and all other helpful information. And he will render this service entirely free of charge to help you get business.

Hundreds of electrical contractors, the country over, use this service almost daily. It has proven bigger business for them, it will prove itself to you. Learn to use it. Call, or write, the man today!

AND ANOTHER THING—We have a catalog which is really more of a data book and panelboard encyclopedia than an ordinary catalog. You need it on your desk. It's free—just write for it.

PANELBOARDS are dead faced panelboards. They cannot be changed by careless workmen nor tampered with by self-elected experimenters. Isn't that a feature?

Frank Adam

ELECTRIC COMPANY

DISTRICT

OFFICES

Atlanta, Ga. Baltimore, Md. Boston, Mass. Buffalo, N. Y. Chicago, Ill. Cincinnati, Ohio Dallas, Texas Denver, Colo. Detroit, Mich. Jacksonville, Fla. Kansas City, Mo. Los Angeles, Calif. Memphis, Tenn. Minneapolis, Minn. New Orleans, La. New York City Omaha, Neb. Philadel phia, Pa. Pittsburgh, Pa. Richmond, Va. San Francisco, Calif. Seattle, Wash. Tampa, Fla. Tulsa, Okla. Montreal, Que.

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A.E.I.

News and Service Information

Material for this department is supplied by the headquarters staff of the Association of Electragists, International, 420 Lexington Avenue, New York, N. Y.

Two Ways to Become Chapters

Local associations of electrical contractors may now become chapters of the Association of Electragists in one of two ways, either as a chartered chapter or as an affiliated body. The charter plan takes care of those groups which want to designate their association as the "So-and-So" Chapter of Electragists. The affiliated plan takes care of incorporated locals and those bodies which wish to retain their own local association name.

The two application forms are practically identical except that the use of the term "Electragist" with the corporate name of an incorporated local association is qualified. Under both plans the local chapter must be 100 per cent A. E. I. members.

Standard Mechanics' Lien Act

Word is received from the secretary of the Standard State Mechanics' Lien Act Committee of the United States Department of Commerce that the comments submitted regarding the Second Tentative Draft and the Supplement distributed for consideration last year, have been collated and sent to the committee members for consideration; but that the committee has had no additional meetings, and no action has been taken at this date.

The A. E. I. is opposed to the Supplement proposing changes in the Second Tentative Draft, on the grounds published in November, 1928, issue of "Electrical Contracting."



VISITS FIFTEEN CITIES:—Laurence W. Davis, general manager of the A. E. I., has just completed a three weeks' trip covering fifteen cities in the interests of chapter organization. His trip included Baltimore, Washington, Pittsburgh, Youngstown, Detroit, Grand Rapids, Milwaukee, Chicago, Orlando, Jacksonville, Savannah, New Orleans, Memphis, St. Louis, Kansas City, and Marshalltown. At Grand Rapids Mr. Davis addressed the Michigan Association of Electric Inspectors and in Chicago he attended with L. E. Mayer, A. E. I. executive committeeman, the National Conference of the Allied Construction. Industries Committee. On February 22 he was the speaker at the Florida State Convention of Electragists at Orlando and on February 25, was the speaker at a luncheon of the New Orleans Chapter of Electragists. From there he went to Memphis and addressed the newly formed Chapter in that city and the following day was the speaker at the weekly luncheon of the St. Louis Electrical Board of Trade, on the subject "Unsound Competition is the Death of Trade." Mr. Davis reported that in every city he visited he found a keen interest in the development of a credit plan similar to that in effect in Detroit and a number of the cities are ready to put it into effect.

Cost of Doing Business

Questionnaires on the Cost of Doing Business and Profit and Loss have been sent out to the A. E. I. membership. The form is somewhat different this year from previous years and it is expected that the results when compiled, will be very helpful to contractors who wish to check their own figures.

Apprenticeship Training

The A. E. I. is studying a program for the encouragement of apprenticeship training in all cities large enough to adequately supply suitable training programs through cooperation between the various branches of the industry, the Federal and State boards of vocational education, and local boards of education.

In 1917 there was passed a Federal law which is known as The Smith-Hughes Act, which provides government aid for vocational educational training of apprentices under the following conditions:

1. The instruction must be given in a school under public control.

The state or the local community must provide sufficient equipment for successful instruction.

 The state or the local community, or both, must give dollar for dollar with Federal funds.

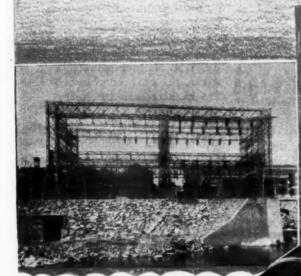
4. At least one-third of the appropriation made to any one state must be used for part time day classes suitable for apprentice-ship training. These part time classes must provide not less than one hundred forty-four hours of school training per year.

school training per year.

Night schools, to secure Federal aid, must confine the instruction to that which is supplemental to daily employment.

 The local communities asking for "Smith-Hughes" aid make their reports each year to the State authorities, who in turn, file re-

New England's \$4,000,000 Power Development UNION FUSE PROTECTED



New England Power Company' development which generates an electric current of 60,000 h. p. for cities and towns nearby.



.0.

The UNION-GEM JEFFERSON Line Is Sold Through Wholesalers



A Great Convenience

The fuse chart is a necessary guide to the proper selection of fuses. It enables you to tell the proper size at a glance, for the adequate protection of motors, and the new Catalog No. 33 explains why Union Fuses give long life and dependable protection. Write for copies of both.

WHEN careful consideration is given to electrical protection, Union Fuses are invariably the choice. The New England Power Company, for example, protects the circuits in its \$4,000,000 power development with Union Renewable Fuses.

Since the early days of electric power, industry has chosen Union Fuses because of their quality, dependable protection, and low maintenance cost.

Simplified design and rugged construction keep Union Renewable Fuses serviceable after repeated blowouts. The extra heavy and tough grey horn fibre case is

vented by an exclusive method. Vents, scientifically proportioned, relieve the pressure generated when the fusible element blows and prevent the molten metal being forced into end caps and threads.

In the knife-blade type, shown above, both ends of the fusible link are notched to make replacement of fuse link easy. In the ferrule type, links are bent at one end for the same reason.

For proper protection and efficiency of motor-driven equipment, lighting and power circuits—and lower fuse costs per year—specify Unions. There is a type and size for every need.

Chicago-Jefferson Fuse & Electric Co.

1503 WEST 15TH STREET
Chicago, III.

UNION FUSES

Because they are worth more they really cost less

(9003)

ports with the Federal Board. The United States Treasurer pays to the State Treasurer the entire aid for the State. The State Treasurer, on requisition from the State Board, sends the money on to the School Board of the communities which operate approved apprenticeship classes.

A. E. I. local chapters planning

to undertake a program of apprenticeship training in their communities can secure information regarding the procedure for securing government aid by writing to the Association headquarters.

State Arbitration Laws.

The A. E. I. is supporting state arbitration bills recently intro-duced in the legislatures in the states of Arizona, Colorado, Indiana, Maryland, New Hampshire and Texas. Similar state arbitration laws are already on the statutes of New York, New Jersey, Massachusetts, California, Pennsylvania, Oregon and Louisiana.

A. E. I. recommends that all other their authority.

states work toward the securing of enactment of the Draft State Arbitration Act, since without such state laws arbitration is not uniformly applicable throughout the country.

The A. E. I. also recommends that a clause be inserted in all contracts agreed to by its members, providing that any controversy or claim arising out of or relating to such contracts, or for the breach thereof, shall be settled by arbitration.

When parties voluntarily agree to arbitrate all future disputes arising out of a contract and insert a clause to that effect, or submit to arbitration an existing dispute, such agreements are valid, irrevocable and enforceable in the same manner as any other agree-

When a party refuses to comply with or perform an award, the Court is required to enter judgment thereon, unless there is proof of misconduct or bias by the arbi-The legislative committee of the trators or if they have exceeded

Big Demand for Local Chapters

With the completion of the application forms for becoming Electragist chapters, there has been a flood of inquiries from locals all over the country. Already a number of applications have been received and it is now apparent that the A. E. I. membership, as a result of the chapter plan, will reach new high records by spring.

Since last month's issue negotiations for affiliation have been opened from Minneapolis, Portland, Ore., Atlanta, Ga., New Orleans, La., Saskatoon, Sask., Canada, Canton, Ohio, and a large number of Florida centers including Miami, Palm Beach County, Tampa, Seminole, Osceola, Lake, and Orange counties, Daytona Beach, and Jacksonville. Among the new inquiries which have been received are Denver, Colo., Lima, Ohio and Savannah, Ga.

Affiliation of the Electrical Contractors' Association of Chicago has been completed.

NEW ELECTRAGISTS

The following contractor-dealers have made application and been accepted into the A.E.I. since the publication of the list in the February issue:

FLORIDA Daytona Beach: Gee Vee Electric Co., Inc. Daytona Electric Co. Malone Electric Co.

Orlando: Curry-Ensign Electric Co. Newell Electric Co. Johnson Elec. Co., Inc.

Sanford: Sanford Elec. Constr.

Tampa: George H. Bell Hale & Buerke Co. West Palm Beach: Burkhardt's Radio & Elec. Shop
Capitol Electric Co.
C. R. Carman Elec. Co.
Service Co. Arthur Hamilton, Jr. Harper Electric Co. Electric Power & Equip. Co. J. R. Jordon Elec. Co. McDonald Electric Co.

ILLINOIS

Trojan Elec'l. Supply Co.

Chicago: A. C. Electrical Co., Inc. Berry & Company

Beverly Electric Shop Bond & Lehman Co. Burgard Elec. Co. Casey Elec. Service Co. Commercial Light Co. H. W. Craven Curtis Lighting, Inc. Davies Electric Co.
Dearborn Elec. Constr. Co.
Divane Bros.
Edward Elec. Co., The Edwards Elec. Constr. Co. Edwards Lighting Fixture Electrical Contracting Co. Harry E. Entler J. F. Fisher & Co., Inc. Fullerton Elec. Shop Gibson & Nicholas Harmon Elec. Co.
Hub Elec. Co.
Humboldt Lighting Fixt. Co.
Hyre Elec. Co.
K. & P. Elec. Co., Not Inc.
J. Livingston & Co., Inc.
Meade Elec. Co., Inc.
R. S. McMillan Harmon Elec. Co. Henry Newgard & Company Rightway Elec. Constr. Co. Jas. E. Rust Elec. Co. Southwest Elec'l. Sales Co. A. S. Schulman Elec. Co. Sweningson & Co.

J. P. Szymanski Thomas Elevator Operating Co. Uhl-Slauson Elec. Co. U. S. A. Company
Wadeford Elec. Co.
Wagner Sign Service
Walter G. Warren & Co.

MINNESOTA Minneapolis: Sterling Electric Co.

NEW JERSEY Livingston: Leon C. Fund, Inc.

NEBRASKA Omaha: Howard W. Granden

NEW YORK

Kingston: A. H. Clark New York City: Harry Alexander, Inc. Alliance Elec. Co. Blackall & Baldwin Co. Burkart Elec'l. Co. Cleveland & Ryan E-J Elec. Installation Co. Albin Gustafson Co.

J. L. Goodrich Engert-Hellman, Inc. Erickson Engrg. Co. Fischbach & Moore, Inc. Fischbach & Moore, Inc.
Lindsay-Wright Co.
John P. Morrissey, Inc.
Regent Elec. Constr. Co.
William Liebfried Co.
Miller Brown, Inc.
John H. Hooley
Robert E. Denike, Inc.
Watson-Flagg Engrg. Co.
Lewis H. Woods, Inc.

Long Island City: Austin & Moore, Inc. William T. Dippel, Inc. Thompson-Starret Co., Inc.

Syracuse: Smith & Zogg

Dayton: The Kelso-Wagner Co.

TENNESSEE Memphis: Frank O. Davis Hill Electric Co. Gray Brothers

THE CELEBRATED SKIP TOOTH DIE

(Genuine Nye)

A Letter from Harry G. Nye

To the Electrical Contractors of the U.S.A.







Nye Post Chain Vise
Net Price, complete with 40"
Steel Chain\$6.18



Fellow Citizens:

Last Sunday I heard a minister preach a sermon that people said was perfectly grand. It was on the evil of money; but I noticed he didn't omit the collection. He hoped that we did not think that money would bring happiness, and at the same time that we would all come to the church entertainment Thursday night, because the ladies were going to fur-

nish a highly enjoyable program for 75 cents.

I don't blame the preacher, because the preacher was right, if a man puts money first. But when a man works twelve hours a day, and worries the other twelve at night, to get money to put the kids through college, he is putting the kids first, the money second, and himself last. You hear a lot about heroes, but, if the average father isn't one, then there aren't any. The more little exemptions a man has running around the house, the less he has need of them at tax time.

And laying up bonds in the bank to keep your widow from want is laying up treasures in heaven, whatever the preacher may think about it. I don't like a tightwad, but a tightwad is better than no wad at all. I never could understand the philosophy that called a spender a saint and a saver a sinner. The trouble with some people when they get hold of a little money is that they are too selfish to keep it, but want to spend it on themselves instead of saving it for others.

The preacher may shake his fist in the face of the money-grubbing American, but few churches are supported by the other kind. After a man has saved up about \$867.11, every time a hand is extended to him it is either knuckles first or palm upward. But saving money is no sin, and even an electrical contractor can do it. All he has to do is to use Nye Tools, they work so much faster and easier, and last so much longer. You don't save a lot of money, but you do save a lot of labor, so you save a lot of money, after all.

Faithfully yours,

Harry of Mye

Otherwise Known As

The Nye Tool & Machine Works 4120-30 Fullerton Avenue Chicago, Ill.

Copyright, 1928, by Harry G. Nye.

All rights reserved

THE CELEBRATED SKIP TOOTH DIE

(Genuine Nye)

The ANTI-SHORT



Cross section of "BX" shows wrapping of Kraft Armor over conductors and interlocking steel armor.



Removing steel armor from end of cable shows compact Kraft Armor over conductors which provides maximum protection.



A split sleeve of red insulating fibre. Bushes cut end of armor and is additional insulation between armor and conductors.

MERCHANDISE DEPARTMENT



"Anti-Short" Bushing between conductors and steel protects against grounds.





FOOL PROOF BUSHING

General Electric BX

TYPE A - D - C

Marking a distinct advance in installation methods, the General Electric Company now offers this new, flexible bushed cable, so devised as to reduce chances of faulty cutting, trimming or workmanship causing grounds or shorts.

Protected by Kraft Armor between the steel and conductors, this new cable is literally "double-armored." The Kraft Armor protects the conductors under the steel against abrasions.

Unwound and trimmed easily by hand—without the use of sharp tools that may damage insulation of wires—it is readily removed, making room for the "Anti-Short" Bushing.

This fibre bushing provides insulation that prevents shorts, due to abrasions by sharp ends of steel armor. It gives mechanical protection to wires regardless of how sharp or pointed the edge of steel.

The new General Electric "BX" Type A. B. C. Cable closes any argument on the finished job.

ELECTRIC



Wants Time Slip Samples

Editor.

ELECTRICAL CONTRACTING:

We contemplate making some changes in our time slips and want to get the best slips possible. If you have any samples such as used by other contractors we would like very much to see them.

Ohio Valley Electric Co. Thomas D. Douglas, Manager.

Steubenville, Ohio.

[Note: ELECTRICAL CONTRACTING does not have any time slips in its files but it would appreciate having its readers send samples so that Mr. Douglas may have the help he asks for. Editor.]

Lands \$160.00 Job at Resale Prices

* * *

Editor.

ELECTRICAL CONTRACTING:

Permit me to congratulate you on ELECTRICAL CONTRACTING, as I think it the best trade publication ever put in the hands of the electrical contractor. I make use of the short cut methods, estimating service and cannot say enough for the Suggested Resale Price List. Like Mr. W. S. Maddocks of Scranton, Pa., I used this resale service the day I received the January issue and landed a \$160 contract at those prices. Although we only have a small shop with two wiremen, it's a Chinese puzzle to get hold of ELECTRICAL CON-TRACTING a few days after publica-

tion, because it is always in use in spare time by someone around the shop.

G. R. Clark,

Manager, The Electric Shop. Effingham, Ill.

Use Asbestos in Pull Box Wiring

Editor.

ELECTRICAL CONTRACTING:

The use of pull boxes and junction boxes as ordinarily employed in present day construction work presents a very considerable and unnecessary fire hazard to say nothing of the use and occupancy hazard in the building.

We have endeavored to make this practice reasonably safe by requiring conductors so located to be protected by asbestos taping either for the individual conductors or groups of conductors as they emerge from the separate conduits entering the box.

I do not know of any other form of protection which would be effective without entailing a very considerable expense to the contractor and to the public, and if you could suggest any simple and inexpensive method of protecting these conductors in the pull boxes, I would be very glad to hear from

This is an illustration. I have just dictated a letter to a contractor in this city in reference to the installation of a pull box which is "L" shaped and which is 28 ft. 6 in. long and 6 ft. wide in the larger

ft. 6 in. long and 5 ft. wide. This box is 291/2 in. in depth and is constructed of No. 10 gauge metal. Perhaps you can visualize what would happen in a box of this size filled with rubber covered conductors in case of a short circuit or a ground.

J. C. Forsyth, Supervising Engineer, N. Y. Board Fire Underwriters. New York, N. Y.

Leagues Need Money

ELECTRICAL CONTRACTING:

Your editorial on "Leagues Need Money," in the February issue was splendid and I want to congratulate you most heartily on it. No doubt, you learned at Cleveland that there are too many good communities that have not yet awakened to the possibilities in league work and the same thing holds for the type of men they hire as league managers. I think this is an important matter and I am glad to see the way you hit at it.

I also want to congratulate you for the broad-mindedness displayed in your editorial in the same issue on "Who Wants All

Conduit?"

G. M. Weston, Secretary-Manager, Electric and Radio Association of Kansas City, Mo. * * *

Want All Conduit

Editor.

ELECTRICAL CONTRACTING:

Referring to an article in the February issue of ELECTRICAL CON-TRACTING entitled "Who Wants All Conduit?", published on Page 20.

We, the electrical inspectors of Evansville, Ind., want all conduit as it makes the best job and insures a 100 per cent protection so far as life, fire and shock hazards are concerned when grounded and bonded with a safety circuit throughout the system and grounded to a water piping sys-

So far as costs are concerned, when conduit installations are installed with the bare neutral system, which we have been using since January 1, 1928, we have found that a conduit system can be dimensions and the "L" being 18 installed for about the same price



Fast Seller—Nearly 7,000,000 Sold in 7 Months



The inspector's duties are simplified where TRICO "Colortop" fuses are in-stalled. He can tell at a glance if every-thing is OK.



The perplexity of the consumer guess-ing the size fuse wanted is eliminated where TRICO "Colortops" are sold. Re-placement fuses are bought by their colors.

It's Easy Now

to Know the Capacity of a Fuse Instantly by its Color

Simplifies Inspection, Makes Easy Selection and is Instructive to Users.

A help to the storekeepers, stock-clerks and others to select and know the sizes on the shelf and bins quickly. They're packed in 5-unit cartons to facilitate merchandising-have the clear mica window that shows when they blow-and possess the qualities of large center contact, full threaded heavy shell and all porcelain non-shock top. No additional charge for the colored top.

Suggestion to Users: Paintthe cut-out the same color as the "Colortop" fuse used. This will assure correct fuse replacements. No guess-work. No possible mistakes.



A colored band around the edge of each 5-unit carton indicates the capacity of the fuse the box contains. (6 Distinct Colors)

Free Samples on Request



No guess-work, no time lost, when storekeepers supply electricians with TRICO "Colortop" fuses. The capacity is known by its color.



TRICO "Colortop" fuses now enable trouble shooters to select instantly the correct fuses from a bag or box of mixed

Your jobber can obtain TRICO "COLORTOP" fuses for you if he does not have them in stock.

Trico Fuse Mfg. Co., Milwaukee, Wis. Let this serve as your guide

Approved by Underwriters' Laboratories, Inc., Hydro-Electric Power Commission of Ontario, and the following: Modern Priscilla, Good Housekeeping Institute, Herald Tribune Institute, and Associated Factory Mutual Fire Insurance Companies.

S

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2





Engineering Building

is distinctive for its excellent design and perfect construction.

Located at Wells St. and Wacker Drive, it is one of the first beautiful large buildings erected on this young but already famous drive.

Galvakote (white) rigid conduit pipe was used exclusively for electrical installation in the Engineering Building, and Galvakote (white) as well as Enamelkote (black) is now being used in many other very large and beautiful buildings in Chicago and elsewhere because of extraordinary durability and low cost to install.

Clayton Mark & Company

111 West Washington St. CHICAGO, U. S. A.

Manufacturers of

Galvakote & Enamelkote

Super-Quality
Rigid Conduit Pipe

D. H. BURNHAM & CO.
CHICAGO
Architects

PASCHEN BROS.
CHICAGO
Builders

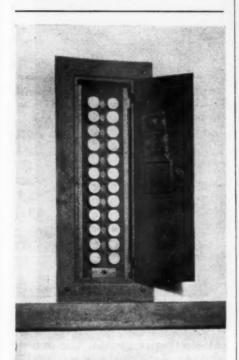
WADEFORD ELECTRIC CO.
CHICAGO

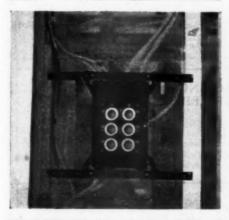
Electrical Contractors

as any other wiring system as you can use three circuits in ½ in. conduit and six circuits in ¾ in. conduit by using the neutral common to other circuits and using a bare neutral. Therefore, we consider the conduit system as used by us to be the best job without a doubt, and practically fool-proof so far as changing polarity and being tampered with is concerned.

A. H. Meier, Edwin F. Koch, Electrical Inspectors.

Evansville, Ind.





IT LOWERS COST BUT DOES IT IMPROVE JOB:—The upper picture shows a 12-circuit cabinet, flush type, installed in a house that was wired five years ago when only 750 watts of lighting per circuit were permitted. Circuits were double fused. Today, when 1,200 watts per circuit and single fuse cutouts are permitted, the lower cabinet suffices. Is this an improvement in wiring practice in view of the greater loads that the wiring is being called upon each year to carry?



Boost Your Sales with ABolites

(Porcelain-Enameled Reflectors)

Easy to Wire—Easy to Clean—Easy to Change

HERE's one of the latest ABolite trouble-savers from our new Catalog No. 180—and it's one that every one of your men will like, "right off the bat." It's the Type X Long-Necked Reflector Unit.

EASY TO INSTALL

Just unscrew the reflector, and the holder is completely accessible. The 2-part porcelain base makes wiring up still easier.



EASY TO CLEAN

The long-necked reflector is the only part to take down. Nothing to injure—it can be put right into the cleaning bucket if necessary.

EASY TO CHANGE

Being interchangeable with all the other ABolite Threaded Neck Reflectors, reflectors can be easily changed to suit changed lighting needs.



TYPE BXMK

Type BX Reflector with 4* Outlet Box Cover.





Easy to Wire. Everything Accessible. Interchangeable.

A COMPLETE LINE Type X is made to fit all

the usual industrial light-

ing needs for wide, concentrated or RLM illumi-

And, of course the 5 Big Points ALL ABolites have

TYPE DXMK
Type DX Reflector With 4°
Outlet Box Cover.



TYPE RXQM
Type RX Reflector with Q Type
Pendant Holder.

If You have Catalog 180—See Pages 14 to 16
If You haven't—Write us to Send It

The ABolite Reflector Co.

2400 East 75th Street

Cleveland, Ohio



Contracting News

Information of Interest to Electrical Contractors consisting of items of news, short articles, practical ideas, etc. Our readers are invited to contribute to this department.

Baker Heads Indianapolis Group

The Electrical Contractors Association of Indianapolis held its annual meeting on February 5, at which time it elected P. P. Baker, president; H. M. Stradling, vicepresident; F. P. Foulke, secretary, and J. R. Alexander, treasurer.

The local Electrical League, through its president, Roy Thurman, offered the services of the league engineering department on job layouts without cost to the contractor.

The remainder of the evening was devoted to a general discussion of conditions and plans and a vote on the matter of dues.

Canton Contractors Studying Code

As an initial activity following the re-organization of the electrical contractors of Canton, Ohio, a class has been formed, meeting every Wednesday evening under the city evening school program, ment. The wiring is being done by for the study of the National Elec- the Queen City Electric Co.

trical Code and Canton ordinances. Lawrence Booth, president of the Electric Motor and Engineering Company, is serving as instructor, and has prepared a schedule of study for the ensuing three months' period.

The "Analysis of the New 1928 National Electrical Code," available from the Association of Electragists, is in the hands of each member as a guide in the Code

The class meets at 7:15 P. M. in the Foreman's Club Room of the New Vicary Building, and H. L. Moyer, of the Industrial Electric Construction Company, who has been active in forming the class extends a cordial invitation to all electragists or others who may be interested to attend.

> Denver Gets Red Seal Apartment

Denver's first Red Seal, allelectric apartment of 12 suites is nearing completion and will have from 30 to 35 outlets in each apart-

Fifty-Six Per Cent Defective

The New York Board of Fire Underwriters reinspected over eighteen thousand equipments in 1928 and found 10,368 or 56 per cent defective as follows:

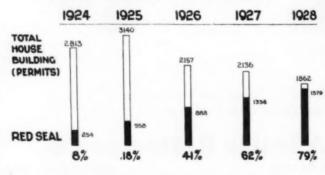
Inspection of Existing Equipments

Buildings completely inspected
Equipments completely inspected
Equipments found defective. 10,368
Equipments found satisfactory 8,121
Equipments where defects were corrected 5,777

Round Table Meets at Pittsburgh

The Round Table, which is composed of secretary-managers of local electragist groups, was scheduled to hold its regular winter meeting at the Keystone Athletic Club in Pittsburgh, Pa., on February 25 and 26.

PERCENTAGE OF RED SEAL HOUSES



AVERAGE NUMBER OUTLETS PER RED SEAL HOUSE

	1924	1925	1926	1927	1928
NO. OF RED SEAL HOUSES	254	558	806	1096	1413
AVERAGE NO. OUTLETS	38	45.5	53.4	59.20	62.80

98 RED SEAL HOUSES

Ranges	93- 95%	Ironers	10- 11%
Water-heaters	77 - 78%	Portable Heaters	39- 40%
Grates	55 - 56%	Curling Irons	90 - 92%
Washers	65- 66	Fans	26- 27%
Vacs	81- 83°;	Radios (Electric)	36- 37%
Refrigerators		Sewing Machines	31- 32%
Irons	100-1020	Floor Polishers	8- 8%
Toasters	98-100%	Floor Lamps	254-260%
Percolators	27- 28%	Table Lamps	185-190%

TORONTO'S RED SEAL RESULTS:—From 8 per cent of the building permits in 1924 to 79 per cent in 1928; from an average of 38 outlets per Red Seal home in 1924 to 62.8 in 1928; with a high percentage of appliances per home based on a survey of 98 Red Seal homes—these are the results of five years of intensive effort on Red Seal in Toronto.

BENJAMIN-STARRETT

Panelboards and Steel Cabinets for Light and Power



Heavy Duty Panelboards offer a choice of three distinct types of cabinets: Safety Front, double door construction, with small door giving access to switches only. Protective Front, single door with protective shield. Open Front, single door without shield. For all classes of installations from residences to large office buildings.

A complete line which provides a suitable panelboard and cabinet for every kind of lighting and power wiring job—for the residence, store, loft building, school, hotel, hospital, factory or modern office building.

Sectional unit construction assures uniform quality of the highest grade, flexibility, adaptability, low installation cost and minimum expense for maintenance over long periods of service.

Harmonious design, combined with careful engineering and skillful manufacturing give Benjamin Starrett Panelboards and Cabinets an unusually distinctive appearance—the visible evidence on the part of the contractor, of a neat and workmanlike job.

Little Sentry Panelboards are for residences, apartment buildings, stores, schools and similar places having from 4 to 12 branch circuits.



Quick Delivery

Cabinet boxes for the Safety, Protective and Open Front panelboards may be secured from local distributors or district office stocks and installed while panelboard is being shipped from the factory warehouse. Type G and Little Sentry Panels are carried in local stocks completely assembled for immediate shipment.



ment buildings, factories, churches and similar places having from 4 to 20 branch circuits.

Type G Panelboards are for apart-

FREE This 80-Page Catalog The complete listings with their practical arrangement and the clear and detailed illustrations make it easy to select the right panelboard for any job in any type of building. Send for it today.

Benjamin Electric Mfg. Co.

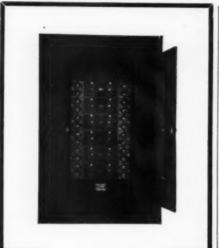
120-123 So. Sangamon Street

New York

Chicago, Ill.

San Francisco





PENN PANELS Pay Profits

ARE you getting all the income you can from the panels you install in your lighting jobs? You ought to be sure before you bid on the next set of specifications. If you have not yet figured Penn Panels in, you have overlooked an opportunity. Besides the first profit you are insured from loss through "make goods" by Penn Panel's sure-fire operation. No room for details here but,

Send for Catalog

immediately and learn how much money you can make on 'every Penn Panel you install. Write to the nearest distributor named below, or just fill in and mail the coupon. Act and win.

PENN Electrical Company IRWIN, PA.

Harry W. Wright Room 212, 90 West St. New York City J. E. Perkins Co. 11 E. Center St. Baltimore, Md. R. R. Mathias 2623 Meirose Ave. Cincinnati, Ohio F. S. Lewis
618 Real Estate
Trust Bidg.
Philadelphia, Pa.
W. C. Fletcher Co.
502 Illinois Bidg.
Indianapolis, Ind.
James L. Thompson
1528 S. Union Ave.
Alliance, Ohio

Coupon Brings Free Book

 	-
Penn Electrical Co., Irwin, Pa. Please send me free, your catalog of electrical naterial.	
Name	
Address	
CityState	

New York Votes for Credit Plan

The Electrical Contractors Association (No. 1) of New York City according to president John W. Hooley, has decided to put the Detroit Credit Plan into effect in New York early this spring.

"The Detroit Credit Plan is the solution of most of the contractor's problems," Mr. Hooley said. "In a large city like New York, much of the building is done by speculative builders. These men have been financing their projects on other people's money. If the electrical contractors have to pay 30 days, or else go on the cash list, they will not take notes and help the speculator carry the bag."

To Advertise Adequate Wiring

Aggressive advertising or adequate wiring for new homes and rewiring for old homes was voted at the February 11 meeting of the Westmoreland County (Pa.) League.

The advertisements are to be paid for by contractors and others directly interested. The campaign was expected to start shortly.

Satchwell Heads Florida Electragists

The outstanding address of the annual joint convention of the Florida Electragists and the Florida Association of Electrical Inspectors, held at Orlando on February 21 and 22, was delivered by C. C. Graham, electrical inspector for the city of Jacksonville, on the subject of "Code Changes."

T. E. Satchwell, of Satchwell & Joseph, Jacksonville, was elected president and R. C. Bigby of Tampa, vice-president of the Electragists, while the new members of the board of directors are S. C. Reddick of Jacksonville and J. J. Newell of Orlando.

The convention, which has come to be of far more importance than state meetings generally are, because of the time and place at which it is held, had an exceptionally fine attendance this year. Much of the enthusiasm was due to the new interest being taken in Electragist local chapter work.



We have a Complimentary Copy

We have a COMPLIMENTARY COPY for every reader of ELECTRICAL CONTRACTING.

Write for Your Copy NOW

Specify Catalog No. 31

THE THOMAS & BETTS CO.

15 PARK PLACE

NEW YORK

NEW YORK



1415 Jackson Blvd.

Chicago, U. S. A.

Representatives in All Principal Cities

REYNOLITE

ELECTRICAL DEVICES

"The Ultimate in Quality"



Precision in manufacture is the secret of the very high quality of all Reynolite Products.

Attractive in appearance without the sacrifice of efficiency, means more sales to your customer with less effort.





Standardized to such an extent that installations are made more quickly, and better service rendered to your customer.

The Reynolite Sales Policy protects you, and assures a liberal profit on the best designed molded devices possible to manufacture.



REYNOLITE IS THE QUALITY THAT ASSURES YOU OF INCREASED BUSINESS AND GREATER PROFITS.

Write for Dealer's Price Sheet No. 84

REYNOLITE DIVISION REYNOLDS SPRING COMPANY

Jackson, Michigan

Protect your customers and furnish Reynolite better made electrical devices. All Underwriters approved.

Jacksonville Studying Credit Plan

The Detroit Plan is being investigated by the Jacksonville (Fla.) contractors. The committee expects to have their plans prepared soon for presentation to the Jacksonville Electrical Contractors Association.

Check Your Wire

Remember that copper is higher than it has been for years. Wire prices are reflecting that condition. Check all of your wire prices against those in the Resale Price Section (PL-26, 27, 28) before submitting an estimate.

Rochester Exceeding Red Seal Bogey

A bogey of 500 Red Seal homes in 1929 was set by the electrical league of Rochester, N. Y., and in the first seven weeks of the year 71 applications had been reported.

Five-Day Week Again in Courts

The labor situation in New York City is going through the courts. First the Building Trades Employers Association sought to enjoin the Electrical Contractors' Association (No. 1) for making a separate agreement with labor granting the 5-day week at a higher wage per day.

The contractors contended successfully that they had such a right because they had previously reserved the right to arbitrate all labor troubles with the union through the Council on Industrial Relations. The court held that this was undoubtedly a labor trouble and that the contractors had a right under their reservation to make such separate agreements.

Later the Building Trades Employers Association started suit against the union to enjoin it from carrying out the 5-day week. The employers charged the union with attempting to compel fixture manufacturers and others to unionize.

This latter suit was in the courts at the time of going to press.

The Electrical Contractors Association has resigned as a body from the B. T. E. A.



TIME 1 MATERIAL 3 TOTAL 4

Portrait of a Contractor

who learned that something else besides 2 plus 2 equals 4





Dear Sirs:

I can bid as low on Bronze Embossed 'Red Spot' Hangers as the other fellow asks for cheap brass hangers because I save as much on time as he saves on material. Of course I get more than my share of the jobs because the customer almost always chooses genuine bronze in preference to brass at the same price.

RED SPOT

Until you have examined the time-saving construction of

Wakefield Bronze Embossed "Red Spot" Hangers

it's hard to realize that these fine fixtures cost no more on the ceiling than skimped units offered "at a price." Let us show you a sample.

Use The Coupon

The F. W. WAKEFIELD BRASS CO. Vermilion, Ohio, U.S.A.

The F. W. Wakefie	eld Brass	Co.,	Vermilion,	Ohio.
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Please supply sample Bronze Embossed "Red Spot" Hanger and explain the time-saving construction that enables me to sell bronze at the price of brass.

Name....

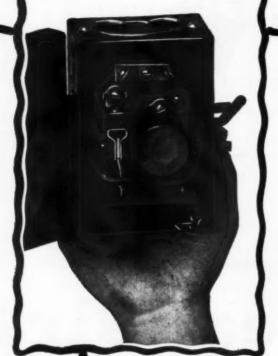
Street.....

City.....State....

For Refrigerators, Oil Burners,

Small Horsepower

Motors!



Now is the time to be considering the business you have before you.

Soon you will be selling and installing refrigerators, and with everyone installed, this little switch, the ▼ "77" is a fitting companion.

It is small, compact, and built for direct application to small motor driven machinery, such as oil burners, electric refrigerators and pumps, commercial sewing machines and for individual control of small motors in industrial plants, in fact for any motor application up to ¼ horsepower.

Even though small in size, it has ample wiring space and features that allow it to be installed quickly.

Send for complete information about "77" with prices.

Trumbull-Vanderpoel Elec. Mfg. Co. BANTAM, CONN.

Subsidiary of Cutler-Hammer, Inc., Milwaukee, Wis.

▼ SAFETY SWITCHES



Suggested RESALE PRICES for Wiring Supplies

The prices listed on the following pages are merely suggested resale prices for the commonly used standard supplies and equipment employed in electrical construction work. They are based on average current trade costs throughout the country, very largely obtained from jobbers' price sheets, and are also based on average overhead charges.

Obviously, prices can be suggested only for the widely used products that are nationally distributed, and under no circumstances is this section intended to function as a directory of products or manufacturers.

The publishers wish to again emphasize that these are merely suggested resale prices and while every effort is made to make them universally applicable and accurate we cannot guarantee them or assume any responsibility for errors.

The prices appearing in this section will be completely revised each month as trade prices may change.

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by the

Electrical Trade Publishing Co.

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Suggested Resale Prices for Wiring Supplies

These are merely suggested resale prices for the commonly used products that appear regularly on jobber price lists. They are figured on generally accepted principles for computing resale prices and should cover average conditions but are not guaranteed. (See note on title page.)

	CIT	TRI	D 1	DO
- 0	_	1100	 ж	ES

	ASBESTOS	
Asbestos	Millboard-Per Pound-29c.	

ANNUNCIATORS

N	o, Drops Drop	Edwards 81 Dixie \$10.00	Edwards No. 91 White Enam. \$13.20	Ansonia 301 to 309	P & W "Competition"	P & W "Auto- matic" Guarantee
3	44	11.75	15.00	\$10.00		
4	66	13.25	16.75	11.00	\$13.40	\$16.60
6	66	16.75	19.75	15.00	16.75	20.00
8	68	19.75	23.10	17.00	20.00	25.20
10	68	23.00	26.50	19.50	23.40	30.00
6 8 10 12 14 16	68	26.50	29.75	22.70	28.25	
14	44			25.25		
16	68			28.00	34.75	
	Drops ea.	2.25	3.00			
		(All other		-Sell at List !	ess 10%)	

ADAPTORS—REDUCERS For Sockets Bryant Benjamin

	No.	No.	No.	Ea.
Medium to Candelabra	392			\$.25
Candelabra to Miniature	391	* * * *		.20
Mogul to Medium	421	98		. 50
T. H. to Edison	9357	1006		. 15
Porcelain Blades to Medium	KF	2000	5494	.30
Composition Blades to Medium	KI.		5807	.50
Composition blades to Medium	IL D		0001	.00

SOCKET EXTENSIONS

SOCIEDI ESEI ENSIONO	
Benjamin No. 91 Socket Extension—Ea	\$.40 .15

Α	TTACHMENTS	FOR	PULL	SOCKETS	
Hubbell No. 5	828-5829—Ea				\$.40

ADJUSTERS

Universal Cord	Adjuster	Standard No. 1417 3%" Long	\$.10
66 66	44	Factory No. 1418 51/4" Long	. 20
66 66	66	Factory No. 1418 5½" Long	. 22
Ball Type No. 1	1403 & 5 1634 & 5	for Type C Cordfor Reinforced Cord	.08

ACORNS

Hubbell	No. 5919	Acorn	Adjustable for Linen Cord	
44	No. 6982		Standard for Pull Sockets	. 10
68	No. 7004	40	Candelabra Detachable	. 10
			ant 750 Luminous Acorn	. 3

BOXES, SWITCH

STANDARD SWITCH BOYES

			A W 1 PT	121212	O 11 4 4 CA	DOZEDO		
For	Loom	Descrip Without		pa	Depth 2 & 214"	Gem Nos. or Similar A-C-D-E & S	Price Black \$.20	Each Galvd. \$.22
68	68		- 04		234"	F	. 15	. 17
66	68	With 2 I	oom (lamps	214"	FC	. 16	.18
For		lie Cable			2 & 236"	X & XS	. 22	.18
E OI	Tare ray	ar Cabie		68	3"	Y	.35	.40
For	Rieid	Conduit	with't	Clamps	2-234-234	B-BM & BS	. 20	.40
44	acigio.	44	68	al	136"	R	. 22	. 25
66	66	48	48	44	315"	BD	.35	.40
Spa	сеге-	For Space	er for a	ny boz d	educt from bo	ox price	.04	.05
46								

BRACKET SWITCH BOXES

Gem or Similar

For Loom, Lath Supports-No Clps. For Metallic Cable, Lath Supports	214"	FCB	\$.30	Salvd.
with Clamps	2 & 21/2	XB & XSB	.35	.40
No Clamps	2 & 234	BB & BSB	.30	.35

LOCKTITE SWITCH BOXES

Gem or Similar

For Loom with Mtg. Ears & Clps. For Metallic Cable, Mtg. Ears &	214"	FCT	\$.25	\$.30
Clamps	2 & 21/2	XT-XCT-XST	.30	.35
For Rigid Conduit, Mtg. Ears without Clamps	2 & 234	BT-BST	.30	.35

SECTIONAL SWITCH BOXES

Union or Similar

	Boxes Black Galvd	Spacers Black Galvd.
For Loom or Rigid Conduit 1% Deep No. 170 For Rigid Conduit 2% Deep—2 Gang No. 160	.\$.20 \$.25 75 .85	

SOLID DRAWN SWITCH BOXES

Union or Similar

		2022			Cinela.	2 Gang	2 C
Solid	Draws	for I	Loom	21/2" Deep Type SS Black Conduit No. 180-181-187-Galv.	\$.15	\$.30	\$.45
66	66	** F	Rigid	Conduit No. 180-181-187-Galv.	. 25	***	
**	**	with	Lath	Support, Black	. 25	.40	. 55

TANDEM SWITCH BOXES

		Black			vanized	
Loom, Cable, Conduit 2 Tandem Boxes 174 & 2" Deep " 214 & 214" "	\$.60 .75	3 Gang \$1.00 1.10	4 Gang \$1.40 1.70	2 Gang \$.75 .85	3 Gang \$1.10 1.20	4 Gang \$1.70 1.95

DOOR SWITCH BOXES

	Union	No. No.	DS-1-3 & DS-2-4 &	5 Appletor	7010-12-14 7011-13-15	without Clamps with Clamps	8.50 .60	\$.60 .70
--	-------	------------	----------------------	------------	--------------------------	-------------------------------	-------------	--------------

SWITCH BOX SUPPORTS

Any Make	Each \$.20
For Concrete Boxes See Page PL-5. For Solid Gang Boxes See Page PL-5.	

BOXES & COVERS, OUTLET

BOXES, OCTAGON & SQUARE

Univ.	Size		Dept	th Kn	ockouts		Each
No.				Bottom	Side	Black	Galvd.
24151	314" Oct.	KO KO	135"	1-15"	4-15"	\$.13	\$.16
24151	334" "	34" KO	135"	1-%	4-34"	.16	.18
24155	334" "		135"	7-36"	8-15"	.16	.18
51151	4" Sq.		135"	5-14"	8-15"	.22	. 25
52151	4" "	35" KO	135"	5-34"	10-15"	. 20	.24
52151	4" "	37" KO	133"	5-34"	10-34"	. 22	. 25
54151	4" Oct.	33" KO	135"	5-35"	4-35"	. 17	. 20
54151	4" "	34" KO	135"	5-%"	5-%"	. 20	. 23
54155	4" "		133"	9-33"	8-33"	. 26	.30
54171	4" "		234"	5-33"	4-35"	.30	. 35
72151	4-11/16"	Sq.	133"	5-33"	8-13"		. 55
72171	4-11/16"	44"	234"	5-12"	8-33"		.65

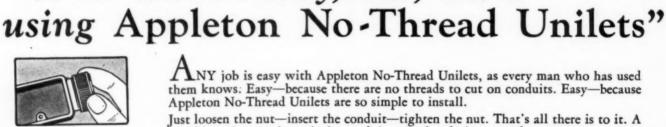
ELECTRICAL CONTRACTING

Boxes & Co	vers		
		COVERS, ROUND	
22 2	or 3¼"	& 4" Octagon & Round Box	
Universal No.	Size	Description	Price Each Black Galvd.
24C-1 24C-2	314.,	Raised %" Closed Cover Blank	\$.06 \$.08 .06 .08
24 C-7	**	Raised with 1/2" KO	.07 .09 .08 .10
24C-12 24C-28		Spider Flat for Surf. Matd. Devices .	.08 .10 .09 .11
24C-33	:	Flat Opng. 36" for Spec. Sign Recep.	.08 .10
24C-35 & 36 54C-1	4"	Flat Closed Cover	.08 .10 .07 .09 .08 .10
54C-2 54C-8	**	Raised 34" Closed Center	.08 .10
54C-7		Raised 16" with 16" KO	.08 .10 .10 .12
54C-28	44	Flat for Surface Mounted Devices	.08 .10 .10 .12
No. 24C-1 24C-2 24C-6 24C-7 24C-12 24C-28 24C-31 24C-31 24C-35 & 36 54C-1 54C-2 54C-3 54C-6 54C-7 54C-12 54C-32 54C-8 54C-7 54C-12 54C-31 54C-31	3¾"	Description Flat Closed Cover Blank 3½"	.09 .11 .09 .11 ple\$.20
1178	*	COVERS, SOUARE	ie \$.30
** *	For 4	" & 4-11/16" Square Boxes	n: n:
Universal No.	Size	Description	Price Each Black Galvd.
52C-2	4"	Raised Closed Center	\$.09 \$.11 .13 .15
52C-6	84	Flat with 1/2" KO.	.15 .17 .12 .14
52C-12	44	" Hole for Cord	.17 .19 .14 .16 .12 .14
52C-14	44	Flat Closed. Raised Closed Center. "with 23'" Opening. Flat with 3'" KO. Raised with 3'" KO. Raised 3'" For Single Flush Devices """ """ """ """ """ """ """	.13 .15
No. 52C-1 52C-2 52C-3 52C-8 52C-6 52C-7 52C-12 52C-12 52C-14 52C-16 52C-16	48	" 1%" " " " "	.18 .20 .22 .24
		For Flush Devices	n: m.1
Universal No.	Size	Description	Price Each Black Galvd. \$.18 \$.20
52C-19 52C-19	4"	Raised 1" For Two Flush	.26 .28 .28 .30
52C-28 52C-28	4" Sq.	Flat For Surface Mounted	.18 .20 .17 .19
52C-48	a sq.	Raised with 21/2 Opening.	.12 .14
72C-1 4-11	/16" Sq.	Flat Closed Center	30
72C-3	44	Raised 234" Opening.	40
No. 52C-17 & 18 52C-19 52C-21 52C-28 52C-48 52C-62 72C-1 4-11 72C-2 72C-14 72C-14 72C-18 72C-48 72C-48	44	Raised %" For Single Flush	44
72C-48	u	Description Raised 34" For Two Flush Raised 11" For Two Flush Raised 114" For Two Flush Raised 114" For Two Flush Flat For Surface Mounted. Raised of Sign Receptacles. Raised 34" For Single Flush Flat Closed. Raised Closed Center Raised 234" Opening Raised with Hole for Cord. Raised 34" For Single Flush Raised 34" For Two Flush Raised 34" For Two Flush Raised 34" For Two Flush Raised 34" Opening.	40
		EXTENSION RINGS	
Universal		For Flush Devices Description	Price Each
No. 25151-57151	34" (Black Galvd
53151-55151 55171	4" Squ 4" Oct	Detagon Ring—1¼" Deep	.28 .30 .48 .54
SH	IALLO	W CEILING BOXES & PLAT	ES
Universal No.	Box or Plate	Size & Description	Price Each Black Galvd.
26121-26125 26126	Box	3½ x ¾" Box with KO	\$.14 \$.16 .13 .15
26716 36115	Plate Box	31/4 Flat Plate	.08 .10 .14 .16
36116 56111 35" KO	44	3½ x ½ Round with KO	.11 .13 .13 .15
56115	44	4 x 16 Round 16" KO or 16" KO	.09 .12 .14 .16
56116 56121	64	4 x 16 Round 16" KO	.11 .13 .17 .19
56122 56125	"	3½ x ¾" Box with KO 4 x ¾" Round ½" KO. 3½ Flat Plate. 3½ x ½ Round with KO. 3½ x ½ Round with KO. 4 x ½ Round ½" KO or ¾" KO 4 x ½ Round ½" KO or ¾" KO 4 x ½ Round ½" KO 4 x ½ Round ½" KO 4 x ½ Round ½" KO 4 x ¾ Round ½" KO	.13 .16 .32 .37
C	ONCRI	ETE BOXES WITH COVER	
Complete with less	th Plate & S	Galvd. Only 114" 2" 214" 3" 314" tud \$.30 \$.35 \$.40 \$.45 \$.50 \$	4" 5" 6" .55 \$.60 \$.65
less	44 64	.25 .30 .35 .40 .45	.50 .55 .60
0.1-1 0.1-		GANG BOXES & COVERS	
Galvd. Only	ang (Gang Gang Gang Gang	7 8 Gang Gang \$6.35 \$6.50
Box Price	.40	\$1.20 \$1.65 \$2.10 \$4.00 .60 .80 1.00 2.00	3.35 3.70
	E	BOXES, OUTLET	
Austin Series 73 With Clamps &	0-731-731	MORED CABLE BOXES By Deep % Deep \$25 Studs \$.20	134" Deep \$.35
Appleton Series With Ears, with No Ears, With With Ears, No	Fixt. Stu	d and Clamps .20	.25
March, 19			
,			

					Boxes,	Floor
AR Chicago Fuse "U No. 1286 Shallon No. 1287 X Shallo No. 1287 XS Shallon No. 1289 Shallon No. 1289 X Shallo No. 1289 X Shallo No. 1289 X Shallo	mored Canon' with clay '3" Deep with Deep willow 3" Deep with '13"	mps thout Fixt. S vithout Fixt. S ithout Fixt. S ithout Fixt. without Fix	oxes— Stud or Bu Stud, with Stud, with Stud, with	Continues Plates th Bush Plates Bush Plates hout Bush ith Bush	lates tes h Plates	Galvd \$.1: .2: .2: .3:
No. 1289 XS Shall G. E. Cable Boxe						
Hope Cable Boxe						
National Electric No. 2365-6-7 Sha No. 2345 Octagor No. 2355 Round	Products, wit llow ¾" Deep Deep 1¾" De Deep 1¾" De	th Clamps with Fixt. eep with Fix eep with Fix	Stud or fo	or % Gas d Clamps d Clamps	Pipe	. \$.2 3 8
Thomas & Betts No. 553-54-55-56 No. 565-66-67-68	-57 Dead Grou	and. Electric	or Comb	ination		. 1.3
	R HANGE	RS FOR	OUTLE			
Price with 1/4 Stu	Straight 18" Bar ad \$.25	Vithout I Straight 24" Bar \$.35 .38		Deep Offset \$.32 .35	Old Wor Bar \$.20 .23	Bo Clea
		BAR SE	TS			
3¼" Round with 3¼" Round with 4" Round withou 4" Round with E	out Ears	iplete wit			•••••	Blac Eac 8.3
В	USHIN	GS &	LOCI	KNU'	rs	
	BUSHI	INGS & I	OCKN	UTS		
	Fo	r Rigid C	onduit	36".	1"	114"
Locknuts—Each Bushings—Each Locknuts—Each Bushings—Each			\$.01 .02 214" \$.24	\$.01½ .03 3″ \$.38	\$.0234 .06 334" \$.50	8.0 4" 1.6
	PORCELA					
A-3 A-4 1 A-5 1 A-6 2 B-1	K. O. Size K. O.	Size 41.4 13.4 13.4 1 1.4 1.5 2.34 41.4 41.4 41.4 41.4	e Wire Size No. 10 No. 10 No. 3 No. 3 No. 00 450 Cl 1 Mill. No. 10 No. 10	M CM	ach	tra Ris Each 8.04 .04 .05 .07 .10 .12 .04 .04
	ORCELAIN					
Catalog No., Mu Size of Hole To Fit Hole Price		90A	90B 90B 13/25 3/8 \$.05	91 11.4 5% \$.05	92A 11/6 13/6 \$.06	92B 17/6 18/6 3.06
	THRE	EADED B	USHIN	GS		
Porcelain withou	t Locknyt			05 Each 06 Each	\$.06 .07	Each Each
Black Composition For Sockets	on			\$.01	\$.06	\$.02
	ВО	XES, I	LOO	R		
	NON-A	DJUSTA	BLE T	YPE		
Latrobe Steel	Latrobe	& Steel C				Pric

		NON-ADJUSTABLE TYPE trobe & Steel City or Similar	
Latrobe No. 100 No. 110 No. 300	Steel City No. 490 No. 490 No. 477 No. 491 No. 499 No. 495 No. 498 No. 497	Round Non-Adjust, Outfit Less Recept	Price \$3.45 2.40 3.90 4.95 2.40 4.30 5.35 8.60
No. 120 No. 130	No. 400 No. 401 No. 420 No. 421	ADJUSTABLE TYPE Round Cover Outfit without Receptacle with Receptacle Large Type without Receptacle with Receptacle	\$4.30 5.35 4.90 5.95





1. Loosen nut



2. Insert conduit



3. Tighten nut

ANY job is easy with Appleton No-Thread Unilets, as every man who has used them knows. Easy-because there are no threads to cut on conduits. Easy-because Appleton No-Thread Unilets are so simple to install.

Just loosen the nut—insert the conduit—tighten the nut. That's all there is to it. A vise-like grip cuts through the conduit enamel and gives a perfect contact.

Naturally, workmen like to use them. And the boss saves a lot of expensive time. Appleton No-Thread Unilets make alterations a simple matter.

Made of Malleable Iron

Light and yet extra strong, because made of Malleable Iron, Appleton No-Thread Unilets are not affected by constant vibration or other forms of abuse. They will last practically indefinitely. Rust is almost impossible since they are made of Malleable Iron with a Cadmium finish.

All the types and sizes of Unilets are shown in our latest catalog. Send for yours today.

Appleton No-Thread Unilets are listed as Standard by Underwriter's Laboratories in ¼-inch to 4-inch sizes, inclusive

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APPLETON ELECTRIC COMPANY

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San Francisco—655 Minna St. Seattle—628 Railroad Ave.

No-Thread Malleable

The Original Threadless Conduit Fittings LCity.....

	Manual Ton Ton
-	Appleton Electric Company 1704 Wellington Avenue, Chicago
	Gentlemen: Please send us a copy of your new Bulletin 9DA on Malleable No-Thread Unilets, together with prices.
-	Name
!	Address



The thing you sell your customer is a complete electrical installation. Your object in assembling this installation is to sell it at a profit. You are interested therefore, in all material that goes into the job.

Don't consider wire only, install a complete installation that you can sell at a profit. Choose the parts and materials that, when every feature is considered, will make a reputation and show a profit for you.

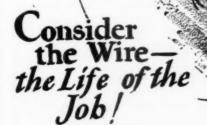
Quality wire, made by a reputable manufacturer, wire time-tried and tested to give profitable service after the job is completed, that's the wire to choose.

When leading contractors of the country use

American Steel and Wire Company Rubber Covered Electrical Wires

in the nation's largest and most prominent buildings, that is the basis of profit in their choice.

Any of our sales offices will assist with electrical wire problems whenever necessary. Our Electrical Wires and Cables Handbook will be sent free on request.





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forTUMBLER SWITCHES and RECEPTACLES

Cat. No.	List Price	Description
★9057	80.45	For 2 Switches and Single Receptacle.
★ 9056	.45	For 2 Switches and Duplex Receptacle
9018	.30	For 1 Switch and Single Receptacle
9019	.30	For 1 Switch and Duplex Receptacle
88	.25	Ruby Jewelor Bull's Eye for Tumbler Plates
A few	of the	popular numbers.
Send	for com	plete catalog data.

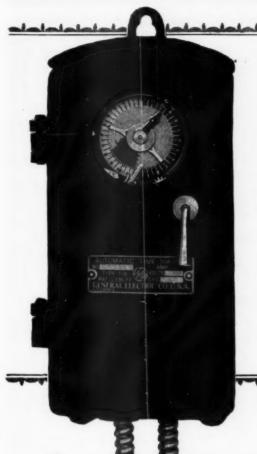
3 Gang Combinations

TWO new "ARROTEX" Plates in 3-Gang Combinations make the line more popular than ever. Use the new numbers for Two Tumblers and Single or Duplex Convenience Outlets; or for the handy Warning Light Unit of Switch, Bull's Eye and Receptacle.

The attractive border and ribbed satin surface of "ARROTEX" Plates are beautiful and distinctive — Made in all popular styles, economically priced.

ARROW ELECTRIC DIVISION

ARROW-HART & HEGEMAN ELECTRIC Co., Hartford, Conn., U.S.A.



Chose who know the satisfaction of time-keeping electrically will insist upon these modern time switches

A time-controlled switch for turning circuits "on" and "off "automatically.





The success of the motoroperated timing element, as embodied in these superior switches, has also been demonstrated by the Telechron. This popular springless electric clock is likewise accurately regulated from the power station. You just set the *modern* clock in place and plug into a handy wall outlet—you don't need to wind it once a week.

The same refinement of operation is available in G-E time switches, which are unique in their field by reason of the same operating principle—a little electric motor running in step with the power supply.

What are the practical advantages? Accuracy beyond question. Reliability such as has established the general confidence in present-day electric service. Flexibility in locating the time-control device, because there is no winding to be considered. Freedom from the necessity of frequent periodic attention. And all because the G-E time switch is a better switch, motor-operated.

Available through G-E distributors. A postal card or letter to your G-E distributor or the nearest G-E office will bring full information.

621-8

GENERAL ELECTRIC

GENERAL ELECTRIC COMMAND CONTROL OF THE CONTROL OF

	A	ADJUSTABLE GANG TYPE	Price
No. 251	No. 441	Single Adj. Box without Receptacle	\$ 5.35
No. 252	No. 442	Two Gang Box with out Receptacle	10.70
No. 253	No. 443	Three Gang Box without Receptacles	16.00
No. 254	No. 444	Four Gang Box without Receptacle	21.45
Add or D	educt for mo	ore or less receptacles—each	\$1.00

FLOOR BOXES Thomas & Betts

				1 110	III3	19	& De	LLS									
No.	100 200 1100	Floor	Box	Complete-a	s de	SCT	ibed in	cata	lo	g.			 6		9	0 1	 \$4.30
No.	200	43							-						0.1	0.1	 4.30
No.	1100	68	68	Watertight t	ype	28	describ	ed i	n	cat	al	og					 8. 25
No.	1200	60	44	Telephone	44	6.0	44	4	id.		66		 *	× ×			 3.75

BOXES, CUTOUT

TYPE "A" SURFACE CUTOUT BOXES

			Black		
Width	Length	3"	4"	5"	_ 6"
Inches	Inches	Deep	Deep	Deep	Deep
434	5	\$.50	\$.55	\$1.12	
436	9 314	.60	.85	31.12	
6	6 67	.55	.65	.90	\$1.53
6	8	.65	.75	1.35	1.30
6	9	.70	.75	1.50	1.20
6	10	.75	.90	1.50	1.97
6	12	.80	.90	1.72	2.18
6	16	1.47	1.25	1.92	2.45
8	8	.75	.90	1.25	1.50
8 8 8	10	.95	1.00	1.45	2.10
8	12	1.00	1.10	1.65	1.85
8	15	1.15	1.25	2.18	2.70
8	18	1.35	1.65	2.48	2.95
9	9	. 85	.95	1.70	2.09
9	12	.95	1.25	2.00	2.45
9	15	1.15	1.35	2.38	2.86
9	16	1.85	1.50	2.45	3.00
9	18 20	2.00 2.10	2.40 2.50	2.67 2.75	3.25 3.48
0	10	1.00	1.15	1.65	2.00
0	12	1.15	1.40	1.90	2.10
ő	15	1.35	1.55	2.15	2.50
0	18	2.19	2.30	2.45	3.50
0	20	2.59	2.75	3.00	3.82
0	24	3.05	3.40	3.89	4.34
0	28	4.90	5.38	5.61	6.62
0	32	5.41	6.02	6.61	7.35
0	36	6.02	6.65	7.22	8.17
2	12	1.10	1.40	2.15	2.40
2	16	2.50	1.60	3.24	3.65
2	18	2.72	2.75	2.80	3.10
2	20	2.92	3.25	3.50	3.90
2	24	3.48	3.50	3.70	4.25
5	24	4.10	4.25	4.50	4.95
6	15	2.90	3.00	3.75	2.85
6	18	3.40	3.50	3.60	4.00
6	20	3.70	3.85	4.40	4.75
8	28 18	6.88 3.80	7.54 2.80	8.15 3.00	8.85
8	20	4.10	4.75	5.00	3.30 5.50
8	24	6.62	7.30	7.80	8.50
8	28	7.58	8.27	8.85	9.60
8	36	9.50	10.15	10.90	11.70
4	24	8.45	7.50	9.90	9.65
4	28	9.65	10.40	11.00	11.85
4	32	10.85	11.65	12.40	13.20
4	36	12.10	12.90	13.70	14.50
24	40	13.25	14.10	15.00	15.60

BELLS & BUZZERS

				A	180	nia			
Name No. 656 Ansonia Wizard Eureka Acme Eureka Wizard	No. 656 652 659 641 631 660 666 655 658	Dble Dble Dble Dble Com Wat N. P	coil le. Bel ch Cas	iption Non-Adj Round Non-Adj Adjust. Adjust. Wood B & Buzz e Buzze ound Be	ust. Base just. B. A. x. B zer . r	.70 .75 1.00 1.35	\$1.2 \$1.2 1.5 1.7 1.3	0 \$1.60 0 1.85 5 2.00	Sleigh
**	661		64	86			1.8	0	
Name	N	o. 5	Size	Ed	lwa	rds Descri	intion		Price Each
Dixie	720 725	214"	Two	Coil No	on-A	djustabl	e Bell		\$.75
Nubel	735 736	234"	66	66	62	66	Gray E	nameled Bel	1 .60
Combel Tubell	737 738	234"	Dble.	66	44	44	66 6	Bell&Buzz	. 1.15
Cadet	710 715	235"	Two	68	Adj	ustable		Bell Buzzer	1.00
66	712 714	3"	44	68	_	44		Bell	1.60
Buz-A-Bell Monitor Bronx	730 156 750	2½" 3" 1¾"	41	Monito	nati	all Nickle	Buzzer		1.20
52									

N	No. 13 Be	ella	Lur	ngen			
C:							Dal-
1"							Pric
1%"	*******						1.8
215"				*******			1.9
4"					*******	**********	2.0
D							9.5
Cow or SI	eigh						2.2
	lo. 15 Bu	ızzers					
Size	4" No	0					Price
Size 1%" ± 1½ 2½" ± 1½ 2%" ± 1½ 3" ± 2"	No.						1.5
2%" x 13	No.	2					1.7
3" x 2" 3¼" x 2}	No.	3					2.0
073 1 47				ins Iron			2.2
	-						Pric
Small 214	" Iron Box	Bell Adj	ustable D	ble. Coil.	Cail	**********	1.7
Small 14	" Nickled	Midget B	ni Adjusti leli	tole Dole.	COII	*******	2 0
6" Large	Iron Box F	dell -5 C	hms				7.5
8" "	68 66	" -5 0	hms				12.0
				ilkins B			
							Pric
Standard	215" Iron	Box Buzz	ter Adjust	. Dble. Co	il		8 .7
Nickeled	Watch Cas	e Buzzer.	- 11/11				1.0
Flush Ru	naget Buz	zer-178	x 178				3.3
Oak Woo	d Box Buz:	zer-3" z	416"				1.9
				ns Wood			
			215"	3"	4"	5"	6"
	Song		\$2.00	\$2.10	\$2.40	\$11.20	6.4
Dinner Cow				6.00	8.25 9.60	\$11.20 13.65	13.2
		_	anley &	Patters		10.00	10.0
Name	No.		Description		21/2 Bell	3" 4"	Cow
					or Buzz	Bell Bell	or
							Sigh
	200.1.2	Non-Ad	lines Clas		. 75		
	200-1-2 210 to 18	Non-Ad	just. Clas ble Class	B	1.00	\$1.20 \$1.60	
Eclipse PRXXX	210 to 18 220 to 28	Adjusta	ble Class	B	1.00	\$1.20 \$1.60 1.50 1.85	\$1.70
Eclipse PRXXX Marlo	210 to 18 220 to 28 231 to 60	Adjusta	ble Class	B	1.00	\$1.20 \$1.60 1.50 1.85 6.35 6.85	\$1.70 2.21 8.60
Eclipse PRXXX Marlo "Eclipse	210 to 18 220 to 28 231 to 60 208	Adjusta Adjusta Transfor Combin	ble Class ble Class rmer Type a. Bell &	BABuzzer	1.00 1.35 6.15 1.25	0.35 6.85	\$1.70 2.21 8.60
Eclipse PRXXX Marlo Eclipse Monitor	210 to 18 220 to 28 231 to 60	Adjusta Adjusta Transfor Combin	ble Class ble Class rmer Type a. Bell &	BABuzzer	1.00 1.35 6.15 1.25	1.80	\$1.70 2.21 8.60
Eclipse PRXXX Marlo Eclipse Monitor P R	210 to 18 220 to 28 231 to 60 208 238	Adjusta Adjusta Transfor Combin	ble Class ble Class rmer Type a. Bell &	BABuzzer	1.00 1.35 6.15 1.25	0.35 6.85	\$1.70 2.21 8.60
Eclipse PRXXX Marlo Eclipse Monitor P R P R	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266	Adjusta Adjusta Transfor Combin Monitor Watch	ble Class ble Class rmer Type a. Bell & r Bell N. I Case Buzz	B	1.00 1.35 6.15 1.25 1.25	1.80	\$1.70 2.21 8.60
Eclipse PRXXX Marlo "Eclipse Monitor P R P R	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266	Adjusta Adjusta Transfor Combin Monitor Watch	ble Class ble Class rmer Type a. Bell & r Bell N. I Case Buzz	B	1.00 1.35 6.15 1.25 1.25 1.00 ox Type	1.80	\$1.70 2.21 8.60
Eclipse PRXXX Marlo Eclipse Monitor P R	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266	Adjusta Adjusta Transfor Combin Monitor Watch (ble Class ble Class rmer Type a. Bell & Bell N. I Case Buzz	Buzzer Buzzer Adjust Non-Adj. I Iron B	1.00 1.35 6.15 1.25 1.00 ox Type	6.35 6.85	\$1.70 2.21 8.60 4" Bell
Eclipse PRXXX Marlo Eclipse Monitor P R	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266	Adjusta Adjusta Transfor Combin Monitor Watch (ble Class ble Class rmer Type a. Bell & Bell N. I Case Buzz	B	1.00 1.35 6.15 1.25 1.25 1.00 ox Type	1.80	\$1.70 2.21 8.60 4" Bell
Eclipse PRXXX Marlo Eclipse Monitor P R	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266 S	Adjusta Adjusta Transfor Combin Monitor Watch (ble Class ble Class ble Class class class a. Bell & l Bell N. I Case Buzz ze Small	Buzzer. Buzzer. Adjust Non-Adj. I Iron B Bell \$.65	1.00 1.35 6.15 1.25 1.25 1.00 ox Type \$.60	3" Bell \$1.00	\$1.70 2.20 8.60 4" Bell
Eclipse PRXXX Marlo Eclipse Monitor PR PR	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266 S	Adjusta Adjusta Transfor Combin Monitor Watch (Schwarz	ble Class ble Class ble Class ble Class rmer Type a. Bell & r r Bell N. I Case Buzz e Small	Buzzer Adjust Non-Adj. I Iron B 2½′′′ Bell \$.65	1.00 1.35 6.15 1.25 1.00 0x Type Buzzer \$.60	3" Bell \$1.00	\$1.70 2.21 8.60 4" Bell \$1.40
Eclipse PRXXX Marlo Eclipse Monitor P R	210 to 18 220 to 28 231 to 60 208 238 240-261 265-266 S	Adjusta Adjusta Transfor Combin Monitor Watch (Schwarz	ble Class ble Class ble Class ble Class ble Class ble Class breeze a. Bell & J. Case Buzz ce Small	Buzzer. Buzzer. Adjust Non-Adj. I Iron B Bell \$.65	1.00 1.35 6.15 1.25 1.25 1.00 0x Type 8.60	3" Bell \$1.00	\$1.70 2.20 8.60 4" Bell \$1.40

BELL PUSH BUTTONS, TREADS, ETC.

PUSH BUTTONS, ETC.

	Ansonia	
Round Stamp	ed	Price
D-33	1%" Diameter. 1%" Diameter Fixed Back	\$.80
506	With Card Holder.	.21
507	With Card Holder	.40
513	1% Diam, Loose Dack	.75
514	112" a u a	.34
515		.48
527	214" " Fixed Back	.30
579	17%" " 562 Center	.80
Round Cast		Price
508 & 510	2¾" Diam	\$1.2
511	11/4 Loose Back	.71
512	217" " "	1.2
540	214" 4 4	.70
550	21200 44 44	. 91
570	212" " "	.8
0.0	Other Ansonia Push Buttons, Etc.	
D-33	Desk Push	\$.50
F-33	Stamped Flush Push	. 80
G-33	" Diamond Push	. 80
505	Wood Pear Push	. 6
521-524	Stamped Push	. 8
528 to 524	44 44	1.0
535-536	44	1.2
538	" Oblong Push	1.6
541	Oblong for Card	2.1
543	" 2 Point	1.6
544	" For Card	1.5
545	2 Gang Oblong for Cards	2.3
545	3 " " " " "	3.3
545	4 " " " "	4.6
546	Oblong 2 Gang	2.10
547	4 2 4	1.90
548	" Sgle. Gang	. 8
549	" " "	1.50
562	Desk Push	-4
577	Diamond Push.	. 80
578	4 4	. 88
010	Wood Push Button	. 20
	TI WWW A MEM AFMINIMENT OF COLUMN STREET, STRE	- 20

ELECTRICAL CONTRACTING

Deliaj Tudii Duttoliaj Deci	Diackets for insulators
Other Ansonia Push Buttons, Etc.—Continued Table Clamp No. 571 without Cord, Floor Push or Plug. \$.95 Floor Push No. 560—Nickeled .85 Under Floor Plate No. 561 Nickeled 1.05	BRACKETS FOR INSULATORS
Under Floor Plate No. 561 Nickeled	WOOD BRACKETS
Combination Floor Pushes Complete No. 573	Each 11/4" x 2" x 10" \$.10 11/4" x 2" x 12" \$.11
Edwards	11/4" x 2" x 10"
No. 600 Round & Oval Buttons No. 600 214" Diam. Round	PINS
No. 600 2½" Diam. Round \$.20 No. 601 2½" Diam. for Card Round .40 No. 603 1½" Diam. Round .20 No. 606 Oval .30 No. 609 Oval 2 x 4½" .45	Locust 134" x 8" \$.10 Locust 134" x 9" \$.12 Oak 134" x 8"05 Oak 134" x 9"08
Oblong Push Buttons No. 602 2 Gang for Cards. \$1.05	HOUSE BRACKETS WITHOUT INSULATORS
No. 604 Oblong	Peirce Light Type Heavy Type Corner Type
No. 607 Single for Cards	No. Points Price No. Points Price No. Points Price 153 One \$.25 154 One \$.40 150 One \$.30
DESK BUTTONS	258 Two .60 254 Two .80 242 Two .60 353 Three .90 354 Three 1.10 342 Three .85
Edwards No. 59 34" Hole \$.80 No. 621 34" Hole \$1.45	WIREHOLDERS WITH INSULATORS
No. 59 %"Hole \$.80 No. 621 %"Hole \$1.45 No. 63 3" "75 No. 622 3" " 1.50 No. 620 %" "45 No. 625 %" "50	Peirce No. Wires Spacing Price
OTHER BUTTONS	1607 One 0 3.25 190 " 0 .30
Edwards	191 " 0 30
No. 235 Floor Plug with Remov. Plug & Extension	394 Three 41/2 .80
Plug Only	396 w 6 .85
No. 209 Dixie Floor Tread 1.60 No. 206 Table Clamp 1.10	HOUSE RACKS WITH INSULATORS
No. 206 Table Clamp. 1.10 No. 67 Pendant Push Oak or Mahogany \$.75—White. 1.95 No. 268 White Celluloid. 1.95 No. 68 Metal Pearl Push. .75	No Wires Length Space Price
DOOR & WINDOW SPRINGS	183 1 656 0 \$.40 286 2 1256 6 .80 383 3 1256 3 .95 386 3 1856 6 1.20
Edwards	383 3 12¾ 3 .95 386 3 18¾ 6 1.20
Number 28 28C 30 30C 32 34 38 39 236 Price \$.60 \$.85 \$.90 \$1.10 \$1.60 \$.45 \$.50 \$.50 \$1.10 (For Door Openers, See Page PL-20.)	SECONDARY RACKS WITH INSULATORS Peirce
ROUND PUSHES	Light Type
Partrick & Wilkins	276 2 6" \$.90 278 2 8" \$1.30 376 3 6" 1.30 378 3 8" 2.05
No. 2 Wood Push Spiral Spring. \$.15 No. 1 " Silver Spring. 40 No. 1 2 Way or Open-closed Circuit. 65	1276 2 6" .85 1278 2 8" 1 30 1376 3 6" 1.20 1374 3 4" 1.40
No. 1 2 Way or Open-closed Circuit. 65	2768 2 8" .90
No. 27 Stamped Brass 214 inch	INSULATORS ONLY FOR ABOVE BRACKETS
No. 9 Cast Brass 234 inch Round	Peirce
DESK TYPE	355 Insulator\$.20 1602 Insulator\$.12 356
Partrick & Wilkins	HOUSE BRACKETS WITHOUT INSULATORS
Midjet 34" Hole. \$.90 Desk 34" Hole	National Elec. Products
Multiple 4 Contacts	Light Type Heavy Type Corner Type Price Price No. Points Each No. Points Each No. Points Each
Pony Return. 1.95	108-10 1 8.25 109-10 1 8.40 111-10 1 8.30
OBLONG PUSHES Partrick & Wilkins	108-26 2 .60 109-26 2 .80 108-29 2 .65 109-29 2 .85 111-29 2 .60
No. 50 Stamped Brass	108-36 3 .95 109-36 3 1.20 111-36 3 .85
No. 708 Button & Speak 1.40	HOUSE RACKS WITH INSULATORS
No. 908 3 " "	National Elec. Products
No. 44 Cast Brass Screw Cap	Light Type No. Points Length Each 104-10 Light Type Heavy Type Hoavy Type 104-10 1 534 3 .40 101-24 2 934 \$1.15
No. 31 " " " 2.45	104-26 2 1132 .85 101-28 " 1334 1.70
PEAR SHAPED BUTTONS	104-36 " 18 1.25 101-38 " 21% 2.35
Partrick & Wilkins Compound Maple 2 Button	104-53 5 18 1.65 101-54 5 2134 2.65 104 Insulator Only .10 101 Insulator Only .20
No. 2 Plain, 2 Parts	WIREHOLDER ACCESSORIES
No. 3 Plain Solid Maple	National Elec. Products
Wood Rosettes for above	No. 5000 Corner Chair, \$.13 No. 5040 Break Arm Strap \$.14 No. 5020 Insulator
TABLE & FLOOR PUSHES	No. 5021 U Bolts & Nuts 10 No. 5052 T Head Screw
Partrick & Wilkins	SINGLE POINT WIREHOLDERS
Foot Push with Plug Combination	National Elec. Products
without Plug Combination	No. No. No. No. S211 \$.25 5311 \$.20 5411 \$.35 5511 \$.24
" Center Bolt Only	5214. .35 5314. .30 5414. .40 5514. .40 5215. .45 5315. .35 5415. .50 5515. .40
DOOR & WINDOW SPRINGS Partrick & Wilkins	WIREHOLDERS WITH INSULATORS National Elec. Products
No. 1 Door Spring \$.40 Single Window Spring \$.85	For One Wire For Two Wires For Three Wires
Make & Break Type	No. Each No. 5011 Each No. 5002 Each No. 5003 \$.90
Closed Circuit Door Spring .45 Cled. Circuit Window Spr. 1.10	No. 5001

WIREHOLDERS WITH INSULATORS
National Flag Products

Light '	Type Length	Each	No.	Heavy Points	Type Length	Each
1		\$.30	100.1	4.		\$.00
î	436"	.30	106-10	i	6"	. 65
2	1034"	.55	106-26	2	1136"	1.30
á	1332"	.85	106-36	3	1732"	1.90
Insulator	1634"	.90		Insulato	1734"	1.05
	Light Points 1 1 1 2 2 3 Insulator	1	Points Length Each 1 6" 30 1 6" 30 1 44" 30 2 104" 55 2 134" 60 3 134" 85 3 164" 90	Points Length Each No. 1	Points Length Each No. Points 1 6" 30 106-1 1 1 434" 30 106-10 1 2 1034" .55 106-25 2 2 1334" .85 106-36 3	Points Length Each No. Points Length 1 \$.30 Points Length 1 6" .30 106-1 1 6" 1 44" .30 106-10 1 6" 2 1034" .55 106-26 2 1134" 2 1334" .60 106-29 2 1434" 3 1334" .85 106-36 3 1734" 3 1634" .90 106-36X 3 1734"

B-SUNDRIES, BOLTS, ETC.

CARRIAGE BOLTS Galvanized

		Length			
Man. Each. 8	.05 \$.05	\$.05 \$.0	6 \$.07	\$.07	\$.08

MACHINE BOLTS WITHOUT WASHERS

															v	ra		V	a.	AA.	84	LE	u								
	E	dia	ı	n.															1	Le	em	gt	th	3							
							3	3"			4	80		5	**		-	6	2		7	7"		8"		10	00	12"	14"	16"	18"
12	Eac	h.			*	. 1		08	5	\$.	.(06	*	.1	07	1	j.	0	8			19		s 14	,	\$16	i	2 20	\$ 22	\$.25 .29	\$ 97
2	66				•													•	-	•				. 20	*	.25	2	. 24	. 27	. 29	.31
**	**	-								,									0					.30		.35	2	.34	.37	.42	.46

STOVE BOLTS Round or Flat Head

													Diam	eter	,		
		Le	ngth	1					6,	4	00	3/4"	1	K"		1/4"	36"
Up	to 1"	Long	Per	Dozen				9	8	.]	10	\$.10	8	.12	1	3.15	\$.20
136	to 116"	-	66							. 1	10	.10		.12		. 20	.30
134	to 214"	- 68	68	66					,	. 1	10	.12		.15		. 25	.35
214	to 3"	66	68	86					0.1			. 20		. 25		.30	.40
334	to 4"	48	68	68		0		0				. 25		.30		.35	. 45

TOGGLE BOLTS, STEEL

								aine				
	Size	-Dia	met	er			2" Long	3" Long	3½" Long	4" Long	5" Long	6" Long
12.	Long	Price	Eac	h.			\$.10 .10	\$.10 .10	\$.10	\$.10 .10		
1	44	46	66				.10	.10	.10	.10	8.11	\$.12
2		**	68				.11	.11	.12	.12	.13	.13
-		NOT	E:	F	70	Bra	ss Toggle	Bolts-	-21/2 times	above	prices.	

FIXTURE BLOCKS

" or 3" Plain. " or 3" Slotted			6 & 7" Round \$.30
3" or 34" Slotted		.35	.40
Ceiling Button-P & S Porcelain No. 170-Each	1		\$.12
Switch Bases-See Snap Switches Page PL-19.			

CORDS, FIXTURE, LAMP AND HEATER

SINGLE FIXTURE CORD

Single Lamp Cord	-	Price Per		** **	
Single Cotton Covered Cord-Light	F-64	No. 18 \$.01	No. 16		No. 12
Single Cotton Covered Cord-Heavy	F-32	.0134	3.02	\$.03	\$.04
Single Artificial Silk Cord-Heavy	F-32	.02	.03	.04	

DOUBLE LAMP CORD

Regular Lamp Cord			Pric	e Per Fe	oot
	Type	No. 18	No. 16	No. 14	No. 12
Cotton Covered Twisted Pair		\$.0214	\$.04	\$.06	\$.10
" Parallel Pair	PD	.03/4	.04	.07	****
Artificial Silk Twisted Pair		.0334	.05	.08	
" Parallel Pair	PO	.04	.05	.08	

REINFORCED CORD

		Pri	ce Per Foo		
Not Asbestos	Type	No. 18	No. 16	No. 14	No. 12
Cotton Covered Light Type 14.		\$.04 .05	\$.05 .06	\$.07 .08	\$.12
Weatherproof Light Type 14 Heavy Type 1/2	PSWP PWP	.0314	.05	.08	****

HEAVY DUTY PORTABLE CORD "Duracord" or Similar. Extra Reinforced

						Pric	e Per Fo	ot	
					No. 18	No. 16	No. 14	No. 12	No. 10
Type	PS Light 3 P Heavy 2 P " 3	Cond.	Port.	Cord	\$.09	8 17	6 91	6.06	6 21
	P " 3	66	68	44		.18	. 26	. 33	.41

54

ALL RUBBER CORD "Tirex" "Royal" "Super" "Indestructo" or Similar

								-	
						Pric	e Per Fo		
					No. 18	No. 16	No. 14	No. 12	No. 10
SJ			onductor Bla	ck	\$.07	\$.10			
	60 60 60 60	2	" Gre	en	.08	.12			
		3	" Bla	ck	.12	.15			****
S	Type	Heavy	2 Conducto	Black	8.12	\$.15	8.23	\$.28	3.34
46	46	**	3 "	44	.18	. 21	. 28	. 33	.45
88	64		4 "	46	. 20	. 23	.34	.41	. 57
**	68	44	Sgle. Cond.	Black	.07	.08	.09	.10	.12

HEATER CORD

		Price	Per Foot	t	
Asbestos Covered Stand, Twisted or Wound Asbest. 14	No. 18 \$.04	No. 17	No. 16 \$.06	No. 14 \$.10	No. 12 \$.12
American Beauty Heater Cord Rockbestos Heater Cord	.06	.09	.08	.11	. 20
		Pric	e Per Fo	ot	
"Deltabeston" Heater Cord Type A Asbestos Braid overall	No. 18 \$.12		No. 16 \$.13	No. 14 8.14	No. 12
C Cotton Braid overall D " on ea. cond E Cotton on ea Cond. & over	.10	• • • •	.11 .12	.12	.16
both	e Page P	L-10.	.13	.14	.18

MISCELLANEOUS CORD

			Price Pe	r Foot		
Description	Type	No. 18	No. 16	No. 14	No. 12	No. 10
x Brewery Cord		\$.04	\$.05	\$.07		
x Canvasite Cord		.06	.07	.09		
x Deck Cable	PWP	. 07	.08	.09		
x Packinghouse Cable		. 07	.08			
x Stage & Theatre Cable.	. T	.06	.08	.09	\$.13	3.16
x Note-These prices are	based on le	ess than	coil lot tr	ade price		
	~					

CONDUCTING BELL CORD

		Sper		•					
Number of	2	3	4	5	8	10	14	18	
Conductors	Cond.	18 Cond.							
Price Per Foot	\$.08	\$.18	\$.20	\$.21	\$.28	\$.38	8.68	\$.88	

Note-For Armored Lamp Cord See Page PL-9.

CONDUIT, ELBOWS, COUPLINGS, BUSHINGS, ETC.

RIGID CONDUIT

																,	ŀ	€.	L	C	1	Ų	D CON	DULL	-	
14	,																						Black Per Foot	Galvd. Per Foot	Cutting & Threading Per Thread	Only Per Cut
12		•	۰	۰	•	٠.		۰	۰	*	•	 ٠.		۰	۰	۰	٠	۰	۰	•	۰		19	14	20	10
73.											•					*		*			*	٠	.10	.14	. 20	.10
1			0	•				0		٠	0 1					٠		•	0		0		.18	.20	.25	. 10
13:	("											 	 										. 25	. 28	.30	.15
1	ζ"		0									 			0								.31	.34	.35	.15
2′′												 											.43	.44	.40	. 20
23	5"											 											.68	.70	. 50	. 25
3′′							 					 											.83	.90	.60	. 30
31	500											 											1.05	1.15	.70	.30
4"												 											1.31	1.39	. 80	. 30

ELBOWS, COUPLINGS, BUSHINGS, LOCKNUTS

				-			
Size	Bends o	or Elbows	Cou	plings	Bushings	Locknut	Coupl.
Each	Black	Galv.	Black	Galv	Galv.	Galv.	Galv.
16"	2 .16	\$.18	2 .10	\$.11	\$.02	\$.01	8 .35
3711	30	24	14	14	.03	.0134	45
23	.20	. 47	. 14	.14			. 40
1	. 30	.35	.18	. 20	.06	.0234	.60
134"	.42	.45	.25	. 26	.10	.06	, 96
136"	. 55	.63	.31	.34	.13	. 10	1.40
2"	.90	1.00	.40	.45	. 24	.14	2.55
216"	1.40	1.70	. 58	.64	.35	. 24	4.75
3"	3.75	4.25	.80	.88	.55	.38	7.80
314"	8.35	9.25	1.00	1.08	1.00	.50	12.00
4"	9.50	10.90	1.30	1.37	1.65	.68	15.95
	Also on	Page PL-10.			Also on		Also on
					Page PL-5.	P	age PL-15.

FLEXIBLE METALLIC CONDUIT "Greenfield", "Flexsteel", or Equivalent

9100	- ,			,				
Single Strip Per Foot	1/4"	36"	36"	34"	1"	114"	135"	2"
Single Strip Per Foot	\$.07	\$.07	\$.09	\$.14	\$.26	\$.28	\$.43	\$.54
Double Strip Per Foot	.09	.09	.12	.16	. 29	. 33	.48	. 80
For Fittings for Metallic								
For Non-Metallic Condui								
For Steel Armored Cable					L-8			
1 of preef termores espir	-				-			

ELECTRICAL CONTRACTING

CABLE, ARMORED & NON-METALLIC SHEATHED

	ORED CABI	-			e Per Fo	to
				No. 14	No. 12	
	Solid	Single St	rip	\$.09	\$.10	\$.11
SINGLE		Double	44	.12	. 13	. 14
CCNDUCTOR	Stranded	Single	46			.13
	Solid	Double	44	.06	. 10	.14
TWO	20110	Single Double	44	.08	.13	.18
CONDUCTOR	Stranded	Single	44	.ue		
COMPOCION	Stranged	Double	66			
	Solid	Single	66	.09	.14	A18
THREE	4	Double	66	.12	.18	. 23
CONDUCTOR	Stranded	Single	66			
COMPOCION	64	Double	66			
FOUR	Solid	Single	48	.17	. 21	
CONDUCTOR	**	Double	48	. 21	. 27	
OVALFLEX	2 Conductor	Single	66	.07	.10	. 12
	3 "	Single	44	.10	.14	
	-				Per Fo	at
				No. 8	No. 6	No. 4
	Solid	Single St	rip	3.10	3.15	
SINGLE	44	Double	46	.16	.18	
CONDUCTOR	Stranded	Single	66	.13	.16	\$.27
	66	Double	**	.17	. 20	. 34
	Solid	Single	66			
TWO		Double	68			****
CONDUCTOR	Stranded	Single	66	.23	.33	. 51
		Double	44	.29	.40	. 63
	Solid ,	Single	64			
THREE	-	Double	44	****		****
CONDUCTOR	Stranded	Single	**	.28	.40	.67
POUR	0 41 4	Double		.35	.50	.81
FOUR	Solid	Single				
CONDUCTOR	0.0-1	Double			****	
OVALFLEX	2 Conductor	Single				
	3	Single	-			

LEAD COVERED ARMORED CABLE

											rnce	Let L	300
Single	Conduct	or Solid Le	ad	Covered		 					No. 14 \$.12	No. 12 \$.15	No. 10
Two C	onductor		66 62 62	44	-	 -			-		.23	.30	\$.17 .38
Three		Stranded Solid Stranded	64	48		 					.30	.39	.48
						•••	•••	•••			Pric No. 8	e Per Fe	No. 4
46	Conduct	or Solid Les Stranded	44								\$.20	\$.27	\$.33
Two	44	Solid Stranded	84	44		 • •	• •				.59	.82	i.10
Three	**	Solid Stranded	66	44	• •	 				 	. 70	1.22	1.48

ARMORED LAMP CORD

	i i	Per Foot	
Single Strip Plain Armored Lamp Cord	\$.12	No. 16 \$.13 .22	\$.17

NON-METALLIC SHEATHED CABLE

		"Romex",	"Loo	mw	lre		,	••	W	ireflex	",	or si	milar	
		S	ize							No.	14	No	. 12	No. 10
2	Wire	Without	Ground	Wire	è					. \$.05	5	3.0	07	8.10
2	64	With	66	68						05	134	.(0734	.1036
3	46	Without	GE	66						08	3		11	.15
3	66	With	44	68						08	334		1134	.1534
_		5	Size		-	-	-		-	No.	8	No	. 6	No. 4
2	Wire	Without	Ground	Wir	e					. 3.15	,	8.5	20	8.26
2	44	With	66	48						18	136		2014	.2736
3	48	Without	66	66						O.F			30	.40
3	66	With	66	64						22			3034	.41
_		Fittings										-		
St	raps E	ach	1	8.01		3	.0	1		\$.01	3	.01	3.01	\$.01
CI	ip (Op	en Wiring) Ea	ch	.03		_	.0	3		.03				
C	onnecto	rs Threadless	Ea.	.07			.0			.07				
	44	Threaded !		10			1			90		30	50	50

CUTOUTS OR FUSE BLOCKS

PLUG CUTOUTS 125 Volts, 30 Amp. Porcelain

	Universal	Standard	Covered
Description	No.	Open Type	Type
Single Pole-Main Line	62569	\$.25	
Double " " "	62965	. 35	3 .50
Triple " " "	62165	.50	.65
Double Pole Single Branch	61935	.35	1.00
" Double "	62587	. 55	1.00
" " Cross "	8020	.35	
Triple to D. P. Double Branch	62199	.55	1.10
Triple Pole Single Branch	8042	.60	1.10
" " Double "	62135	. 85	1.75

DEAD FRONT PLUG CUTOUTS

with C	overs			
Benjamin 30 Amps.	4 Circ.	8 Circ.	12 Circ.	16 Circ.
With Flush Cover 59904-8-12-16	\$1.80	\$3.50	\$5.50	\$7.00
With Overhanging Cover 59804-8-12-16	2.00	4.00	6.00	7.75
March, 1929				

DEAD FRONT PLUG CUTOUTS-Continued

BRYANT	With Short Cover	With Long Cover
Double Pole Single Branch No. 71935	\$.95 1.45	\$1.85
Triple to Dble. Pole Dbl. Branch No. 72199 & 82199	1.55	1.65

CARTRIDGE CUTOUTS

Porcelain Base, 250 Volts	0-30 Amp	31-60 Amp.	61-100 Amp
Single Pole Main Line Enclosed Porcelain	8 .40	8 .75	\$1.45
Double " " " " "	.60	1.45	3.00
Triple " " " " "	.85	2.10	4.20
Double Pole Two Wire Single Branch Porcelain	.75	2.00	
" " " Double " "	1.40	3.70	****
Double Pole Three Wire Double Branch Porcelain	1.75	4.85	****
Triple Pole Three Wire Single Branch Porcelain.	1.45	3.20	****
Triple Pole Three Wire Double Branch Porcelain	2.40	6.35	

Slat							30 A.	60 A.	100A.	200A	400A.	600A.
Single P Double	ole-S	late	Base-	-250	V.		\$.45	\$.70	\$1.50	\$2.75	\$6.75	\$9.20
Double		**	**	**	-				2.75			
Triple	86	**	-	- 44	46	66			4 15			

١	Slate & Porcelain, 600 Single Pole-Porcelain Base Slate Base	v.	30 A	60 A.	100 A.	200 A.	400 A.	600 A.
ı	Single Pole-Porcelain Base		\$.65	\$.95	\$1.90	\$2.55		
ı	" Slate Base		.75	1.05	1.90	3.00	\$7.75	\$10.05
1	NOTE-Cartridge Cutout	ts are	somet	imes ca	alled En	closed C	utouts.	

C-SUNDRIES

GROUND CLAMPS

	0.220	,							
Standard Adjustable Ground Blackburn No. 3 & 5 with No. 4 & 6 with	Light C	opper	Band		\$.10 .20 .25	% to \$.1 .2 .3	2"% 5 5 0	to 3" . 20 . 25 . 30	
Other Types Chase Shawmut 3661-68 G. V. A Series 5000 G. V. S Series 8000.	8 x34" & 32" \$.20 .30	\$.25 .32	1" \$.30 .40	114" \$.35 .45	11/4" \$.40 .51	2" \$.45 .58	214" \$.50 .65	3" \$.55 .72	

STRAPS, CLIPS OR CLAMPS For Pipe, Without Screws

Tinned Straps, 2 Holo Light Steel Straps, 1 Hole Mall. Iron Straps, 1 Hole	\$.01 .03	\$.01 .03 .07	\$.01 .05 .08	\$.01 .07 .10	\$.01% .08 .15	\$.02 .10 .25	\$.03 .15 .45	\$.04 .30 .70	\$.05 .45 .95
Tinned Pipe Straps-Per	Poun		o Pag						\$.20

COLORING & FROSTING LIQUID

	Cans	15 ounce Cans	30 ounce Cans	Bottle	1 Pint Bottle	Quart Bottle
Cresent (McGill).	*****	41.44	*****	\$1.10	\$2.00	\$4.10
Cefco	\$2.60	\$4.20	\$7.25			4.10
Franco	*****				2.00	4.10

CLUSTERS

Benjamin, Wireless & Adjustable

Multiple Wire	eless	Series Wirel	ess	Adjustable T	ype
No. 12	\$1.75	No. 1214	\$1.75	140. 041	\$1.50
No. 13	2.00	No. 1314	2.00	No. 842	1.75
No. 14	2.30	No. 1436	2.30	No. 852	1.90
No. 15	2.65	No. 1532	2.65	No. 853	2.10
No. 16	2.90	No. 3214	2.00	No. 877	2.25
No. 22	1.50	No. 3334	2.25	No. 878	3.20
No. 23	1.75	No. 3435	2.50	No. 880	2.25
No. 24	2.00	No. 3532	2.80	No. 881	2.75
No. 33T	2.25			No. 890	2.20
No. 34T	2.50			No. 891	3.00
No. 82	1.15				
Clips for Loom.				.\$.02 Each or 3 fo	r \$.05
Crowfeet 16"-1	("-%" E	ach		.\$.02 Each or 3 fo	. 05
" 12"					.10

CORD & WIRE CONNECTORS

SMALL FIXTURE & WIRE CONNECTORS Solderless

Insulated Solderless	Wire or Fixture	Connectors Similar	to "Simplex"	
"Wirenuts" "Marr"				\$.10
Non-Insulated Solde	rless Wire Connec	tors-2 Screw-All	Metal	.10

ROUND BRASS WIRE CONNECTORS HOLE DRILLED CLEAR THROUGH With 2 & 4 Set Screws

	Outside	Largest	Wire	2 Screw		4 Seri	w
Length	Diam.	Solid	Stranded	Bryant No.	Price	Bryant No.	Price
134"	1/6	No. 12		200	\$.10		
135"	26	No. 8		201	.12		
24	29	No. 6	No. 8	202	.14	444	4.11
23	19	No. 4	No. 5	203	. 16	207	3.18
63	23	No. 2	No. 8	204	. 20	208	. 23
142	72	No. 00	No. 2	206	. 25	210	.20
178	112	No. 000	No. 00	200	.20	211	44
2"	52	No. 0000	No. 000			212	.60

No. P. 8238	Price \$.35	Body No.	Only Price	Cap No.	Only
p. 8238	\$.35	No.	Price	No	
				140"	Price
12 M 2000					
	.45		*****		2*22
RP-8221	.55	8221	\$.50	RP	\$.10
					. 20
					.15
					. 25
					. 25
					. 30
		8281	.65	RG	.30

8334 to 37	.90				
KR-130	55	130	40	KR	. 20
					. 20
					.10
		100		***	
tor 5994	60	5574	45	5906	. 20
					.15
					.20
					.15
					. 20
					.50
7090	1.75	7091	1.00	7092	.75
Attachment Plu	gs and othe	r caps-S	ee Pages I	L-16 & F	L-17.
	RL-8221 RA-8222 RM-8222 TM-8222 TM-8224 RG-8281 8330 to 33 8334 to 37 KR-130 KG-103 KT-130	RL-8221 65 RA-8222 55 RM-8222 70 TM-8222 70 RH-8222 70 RG-8281 90 RG-8281 90 8330 to 33 75 8334 to 37 90 KR-130 .55 KG-103 .60 KT-130 .50 tor 5894 .60 6116 .55 6179 .55 6180 .55 5518 .60 7083 1.25 7090 1.75	RL-8221 65 8221 RA-8222 55 8222 RM-8222 70 8222 TM-8222 70 8222 TM-8222 70 8222 RH-8224 90 8281 RG-8281 90 8281 8330 to 33 75 KR-130 .55 130 KG-103 60 103 KT-130 .50 130 stor 5894 .60 5574 6116 .55 6118 6179 .55 6630 5518 .60 5574 7083 1.25 7094 7090 1.75 7091	RL-8221 65 8221 50 RA-8222 50 RM-8222 70 8222 50 TM-8222 70 8222 50 RH-8224 90 8224 65 RG-8281 90 8281 65 8330 to 33 75	RL-8221 65 8221 50 RL RA-8222 55 8222 50 RA RM-8222 70 8222 50 RM TM-8222 70 8222 50 TM RH-8224 90 8224 65 RH RG-8281 90 8281 65 RG 8330 to 33 75

E-SUNDRIES

EXTENSION With Attachment Plu		ket, but		Lamps &	
Length Lamp Cord in and Key Feet Socket No. 18	C	einforced ord ad Socket No. 16	With Artificial Silk Cord and Key Socket Twist. or Paral. No. 18 No. 16		
4 Foot. \$.95 6	\$1.05 1.15 1.25 1.35 1.45 1.55 1.65 1.75 1.85 1.95 2.05	\$1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10	\$1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00	\$1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10	
Length in Feet		Soc	atherproof eket		
4 Foot	Lig No. 18 \$1.25 1.45 1.65 1.85 2.05 2.25 2.45 2.65 2.85 3.05 3.25	No. 16 \$1.40 1.65 1.90 2.15 2.40 2.65 2.90 3.15 3.40 3.65 3.90	He: No. 18 \$1.45 1.75 2.05 2.35 2.95 3.25 3.55 3.55 4.15 4.45	No. 16 \$1.85 2.15 2.45 2.75 3.05 3.35 3.85 3.95 4.25 17	

Date Date 1 Cott.	.10	.10		.10	. 1.6
EL	BOWS	& BENDS	3		
Fo	r Rigid	Conduit			
Size BlackGalv	36	7 \$.22	\$.33 .38	134" 8.43 .50	134" \$.55 .65
Size BlackGalv	\$1.0 1.0	0 \$1.60	3" \$3.90 4.25	334" \$8.45 9.30	\$10.05
		N SHIEL	DS		
Inside Diam Outside Diam For Screws. Length Price Each.	5-6-7 34 to 1" \$.05	8 to 11 35 to 1" \$.06	9-10 19 8.0	11	12-13-14 34 to 1" \$.06
Inside Diam Outside Diam For Screws Length Price Each	12-14 11/4 & 2" \$.10	15 to 18 \$4-1" \$.07	15 to 134 3.1	00	9-16 22-24 2" \$.15
For 1	Bolts &	Lag Scree	WS		
	12 \$.12	_		1.6 \$.32	% 34 8.40 8.60
56					

FUSES

PLUG FUSES

Standard Plug Fuses—Any Make—\$.07 each or 5 for \$.25 (Some Manufacturers put these fuses up 4 in a box, in which case they should be retailed at 4 for \$.25.)

ENCLO	SED FU	SES. NO	N-RENE	WABLE	
		No	n-Indicating	. Price Ea	ch
			Volts	600	Volts
Amps.		Fuse	Refill	Fuse	Refill
1 to 30		\$.10		\$.25	
35 to 60		. 20		.40	
65 to 100		. 55	\$.40	1.00	\$.60
110 to 200		1.10	. 55	1.75	. 85
225 to 400		2.00	. 85	3.65	1.35
450 to 600		3.60	1.30	5.30	2.05
650 to 800		8.00	2.50	9.75	3.35
			Indicating, I	Price Each	
		250 V		600	Volts
Amps.		Fuse	Refill	Fuse	Refill
1 to 30		\$.20		3 .40	
35 to 60		.30		.60	
65 to 100		. 85	\$.55	1.65	\$.95
110 to 200		1.75	.80	2.55	1.30
225 to 400		3.00	1.25	5.55	2.10
450 to 600		5.65	2.10	8.05	3.00
650 to 800		12.10	4.05	15.00	5.00
	RENE	WABLE	FUSES		
		uses	10000	Link	8
Amps.	250 Volts	600 1		Volts	600 Volts
1 to 30	\$.50	\$ 1.		.03	\$.05
35 to 60	1.00		. 25	. 05	.06
65 to 100	2.00		.00	.10	.10
110 to 200	4.00		.00	. 15	.15
225 to 400	7.50		.00	.30	.30
450 to 600	11 00	16	00	60	80

11.00	16.00	•	60	.00
FUS	E WIRE			
	\$65.00	\$6.50 .01	\$2.60 .01	\$2.30 .01
3 \$1.95 01	\$1.50 .011/2	\$1.50 .02	10 \$1.30 .021/2	\$1.30 .03
\$1.00 04	\$1.00 .05	30 \$1.00 .07	\$1.00 .08	\$1.00 .10
30 70 .00 \$1.00 .15 .20	75 \$1.00 .21	\$0 \$1.00 .22	90 \$1.00 .24	100 \$1.00 .25
	FUS. \$1.95 .01 \$1.00 .04 30 70 .00 \$1.00 \$1.00 .15 .20	FUSE WIRE	FUSE WIRE	FUSE WIRE

OPEN	LINK FU	ISES	
Sm	all Wire Ty	pe	
Size in Amps	1 to 30	35 to 60 Amps. 2-3-5 \$.15	65 to 100 Amps. 5 8.20
Lar	ge Strip Ty	pe	
Size in Amps	25-1 7	7 to 16	225-400 10 to 18 \$.60
Size in Amps	10 to	18 25 & 28	801-1000 28 & 30 \$1.75

FITTINGS, CONDUIT, THREADED

TT	1046	rlets" Et	1"	11/11	11/
Туре	23 00	×"	\$.60	3 .87	\$1.1
A 1- Piece	\$.33	8.44	.70	1.12	1.4
	.40	. 50		1.12	1.1
3 2- "	.85	1.05	1.55	1.75 2.38	2.1 3.1
O.E.	.85	1.00	1.00	1.32	3.1
	.50	. 57	. 83	1.32	1.7
0 " "	.70	.81	1.05	1.75	2.2
2 "	.48	. 58	.80	1.32	1.7
		.50	.70	1.12	1.4
2 "	_ (S	ee Page PI	-13)		
B-LF-LL-LR		pecial Form	6 Fittings		
BB-LFB-LLB-LRB	. 56	.63	. 81	1.47	1.9
BL-LBR-LU-LUA	.81	1.12	1.33	1.75	2.8
All One Size	. 67	.80	1.12	1.71 2.18	2.3
A All One Size	.98	1.05	1.40	2.18	3.2
TB-TL-TR	.56 .81 .67 .98 .68 .68	.81	1.12	1.71	2.3
J-UB-UF	.68	.75	1.10	1.76	2.3
All One Size	.84	1.09	1.47	1.96	2.5
Gaskets	.14	. 14	. 21	. 28	.2
Reducers	.21	. 21	. 28	.42	.5
Inions	.63	.70	1.05	1.48	2.8

Fittings, Conduit	Fittings, Conduit
STANDARD TYPES, COVERS EXTRA—Continued	COVERS FOR FS FITTINGS—Continued
Type 2" 2½" 3" 3½" 4" 70 8 1-Piece 32.32 \$5.46 \$6.50 \$10.60 \$11.70 8 2- " 3.65 5.46 7.30 9.10 16.65 8E " 5.45 10.60 11.70 19.90 22.10 C 1- " 3.40 6.24 8.10 11.70 19.90 22.10 C 1- " 3.40 6.24 8.10 11.70 14.30 CO " " 4.46 6.75 10.27 16.38 17.95 D " 3.40 6.24 8.10 11.70 14.30 E " 3.40 6.24 8.10 11.70 14.30 E " 3.40 6.24 8.10 11.70 14.30 E " 10.60 11.70 14.30 16.65 LB-LF-LL-LR For Special Form 6 Fittings See Page PL-13. LBB-LFB-LLB-LRB 3.50 6.50 8.45 13.65 15.60 LB-LBR-LU-LUA 3.72 8.52 TA All One Size 3.58 6.50 9.75 14.30 16.90 U-UB-UF 4.20 7.80 10.15 16.38 18.75 X All One Size 4.90 7.80 13.00 16.90 20.80 Gaskets 3.55 .52 .52 .65	Description Gang Gang Second Second Gang Gang Second Second Gang Second Second Gang Gang Second Second Gang Second Second Second Second Second Second Second Second Gang Gang Gang Second Sec
Gaskets .35 .52 .52 .65 Reducers .70 1.30 1.76 2.60 3.58 Unions 3.78 6.18 10.40 NOTE: For Special Prices on Types F&LB Entrance Fittings See Page PL-13.	2 Gang for One Switch and one Sgle. or Duplex Receptacle
COVERS	G & H WITHOUT ADJUSTABLE BAR
Sheet Steel Blank Met. Cover. \$.11 \$.15 \$.33 \$.45 Cast-Iron \$.21 \$.31 .59 .70 Porcelain with Holes28 .35 .51 Metal with 1 Nipple28 .35 .59 .65 .33 40 .54 .70 Porcelain with 1 Nipple35 .42 .56 .73 Porcelain with 1 Nipple35 .42 .56 .73 Porcelain with 2 Nipple35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .42 .56 .70 .35 .35 .42 .56 .70 .35 .35 .42 .56 .70 .35 .35 .35 .35 .35 .35 .35 .35 .35 .35	Type Crouse Hinds or Similar G. \$.56 \$.70 \$1.05 \$.70 \$.91 \$1.19 GA-GLA-GT. \$.84 \$.98 1.33 \$.98 1.19 1.50 GTA-GX. \$1.05 1.19 1.68 \$1.19 1.40 1.82 H. \$49 6.3 98 1.19 1.50 5.6 77 1.05 HA. \$49 6.3 98 1.19 1.40 1.82 HH. \$56 70 1.05 70 91 1.19 HHC. \$84 98 1.33 98 1.19 1.40 1.82 HH. \$56 70 1.05 70 91 1.19 HHC. \$84 98 1.83 98 1.19 1.50 HLA. \$63 77 1.12 77 98 1.26 Type Crouse Hinds or Similar G. \$90 \$1.05 \$1.05 \$1.05 GA-GLA-GT. \$1.05 1.19 1.61 GA-GLA-GT. \$1.25 1.40 1.82 GTA-GX. \$1.50 1.98 2.24 H. \$41 9.82 GTA-GX. \$1.50 1.98 1.26 HA. \$91 9.8 1.40 HHC. \$1.26 1.40 1.82 HLA. \$1.26 1.40 1.82
RECEPTACLES & ROSETTES	GL
For Above	H
Shallow Type Without Covers, Any Make No Pipe.	HA 1.19 1.26 1.68 HH 1.26 1.33 1.68 HHC 1.54 1.68 2.10
No. Gangs Single Gang One Two FS-FSA Two Gang One FS-FSA Two Gang One FS-FSA Two Gang One Two FSC FSCT-FST FSCD I.88 I.82 I.96	COVERS FOR G & H SERIES Without Adjustable Bar 5 Amp. 10 Amp. 20 Amp. 5 Amp. 10 Amp. 20 Amp. Porcelain. \$1.28 \$1.35 \$1.56 \$1.21 \$1.49 Blank Metal. \$21 \$28 \$1.55 \$1.44 \$1.4 \$1.55 Porcelain with \$4'' Nip. \$42 \$49 \$70 \$1.35 \$1.55 \$1.35 """ \$4'' \$1.49 \$1.56 \$1.77 \$1.42 \$1.42 \$1.70 """ \$4'' \$1.56 \$1.39 \$1.49 \$1.49 \$1.49 \$1.49 Metal \$1.50 \$1.35 \$1.56 \$1.35 \$1.56 """ \$4'' \$1.35 \$1.35 \$1.35 \$1.35 \$1.35 """ \$4'' \$1.35 \$1.35 \$1.35 \$1.35 \$1.35 """ \$4'' \$1.35 \$1.35 \$1.35 \$1.35 \$1.35 """ \$4'' \$1.35 \$1.35 \$1.35 \$1.35 \$1.35 """ \$4'' \$1.35 \$1.35 \$1.35 \$1.35 \$1.35 DEVICES FOR G & H SERIES (See Page 51 Crouse Hinds Catalog No. 2008)
COVERS FOR FS FITTINGS	Lamp Receptacle with Shade Holder Groove No. H546



HEGEMIT

SWITCH & RECEPTACLE COMBINATION

Here's the new idea of doubled-up Convenience with a "HEGEMITE" Plate which is newer still. Rich, lustrous brown with handsome border and vertical-ribbed surface. A real showpiece!

Receptacle opening is now in the plate. Takes the attachment plug of any electric appliance, while the Switch part controls the lights. To show it is to sell it — on your better jobs.

Double Pole, 10 Amps., 250 V.

Double Pole, 20 Amps., 250 V.

Single Pole, 10 Amps., 250 V.

No. 3975 - Porcelain Sw. Base - "

No. 3974-Composition Sw. Base - List \$1.45 No. 3976-Composition Sw. Base - List \$1.55 No. 3978-Porcelain Sw. Base - List \$1.35 1.35 No. 3977 - Porcelain Sw. Base - " 1.45 No. 3979 - Composition Sw. Base -

Carton: 1. Std. Pkg.: 10.

Carton: 1. Std. Pkg.: 10.

Carton: 1. Std. Pkg.: 10.

HARTFORD, CONN. MAKERS OF ELECTRIC SWITCHES SINCE 1890

To MARKET ... To MARKET

EVERY hour . . . every day, thousands of people are going into stores just like yours and are buying batteries—most of these cusand are buying patteries—most of these cus-tomers are asking for Eveready Dry Batter. ies, according to reports we receive from all over the country from jobbers, dealers and

We do not say Eveready Dry Batteries sell consumers themselves! themselves. We do say that you will make memserves, we do say that you will make quicker sales and have more satisfied cusquiencer saies and nave more sausped cus-tomers by selling Eveready Dry Batteries.

Eveready Dry Batteries give you a liberal profit for the first sale. They also insure steady, certain repeat sales—and repeat

profits!

Order now from your jobber. San Francisco





he time you





C-H 3-wire Flush Receptacles are in keeping with the latest trend in wiring. The base is made of unbreakable, heatproof Thermoplax—the clips of heavy phosphor bronze assuring positive contact and long life. The staked binding screws never loosen—and are large in size for strength and wiring convenience. C-H 3-wire Flush Receptacles meet Underwriters requirements.



· SELL · COMPLETE · CONVENIENCE ·

spent to learn wiring ... Re-invest it!

Your experience can sell complete wiring for every home . . . and build your future prospects

YOUR knowledge of wiring represents an investment of your time and effort over a period of years. To make your experience fully valuable to you—it should be reinvested... to earn even greater profit.

Offer your assistance,

your experience, to the builder, architect, owner and realtor. Help in checking over wiring plans. Few builders are wiring experts. They are apt to overlook the electrical improvements which will make the home more valuable—a better place to live—an easier place to sell. Your advice, based on your specialized experience will be gladly accepted.



C-H Flush Switches of the Toggle Type are constantly growing in popularity because of their beauty, convenience and quality. Bult shallow—they are convenient to install in any standard box. Made in single-pole, double-pole and 3-way types. Approved by the Underwriters. Returns on this investment of your experience are two-fold. Service of this kind builds good will—brings you to mind when the next job is up. Your suggestion for complete wiring will bring the maximum profit on the present job.

Good will thus earned deserves the protection of high quality wiring devices. The Cutler-Hammer Line provides a wiring device for every need—with the backing of over a quarter century of unquestioned reputation.

The Cutler-Hammer Catalog describes fully these quality wiring devices for every need. Write us for the catalog and stock up from your jobber.

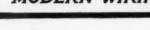
CUTLER-HAMMER, Inc.

Pioneer Manufacturers of Electrical Apparatus

1258 St. Paul Avenue MILWAUKE

MILWAUKEE, WISCONSIN

CUTLER HAMMER





Because it doubles the number of outlets, at only a slight increase in cost, the C-H Duplex Receptacle is the simplest answer to the demand for more outlets. Large binding posts, shallow construction, make installation easy. Approved by the Underwriters.

C-H Automatic Door Switch can be installed in any door jamb. Light is turned on automatically when the door is opened. Especially convenient for lighting closets. Designed to fit in any type of box and to use any type of wire including "Romex." Approved by the Underwriters.



BUILD · GOOD · WILL ·

(8771)

INTRODUCING

Entirely New features in

TRIEX

NON METALLIC SHEATHED CABLE

There are now five layers of insulation covering the copper conductor, making this cable even sturdier than its predecessor.

Constant experiments by our engineers who are ever searching for the betterment of the industry, have resulted in this product. It is made entirely in our own factory from the bare copper wire, right up to the last tough outer cover, thus assuring you of the usual Triangle high quality.

ARMORED
CONDUCTORS
(round, flat, and leaded)
"TRIEX"
(non-metallic sheathed
cable)
NON-METALLIC
FLEXIBLE CONDUIT
RIGID STEEL CONDUIT

FLEXIBLE STEEL CONDUIT RUBBER-COVERED WIRE RUBBER-COVERED

LEAD-ENCASED WIRE
TRIANGLE
ARMORED CABLE TOOL

- 1. Crimped ground wire
- 2. Copper conductor
- 3. Rubber insulation
- 4. Waxed paper insulation
- 5. Cotton braid
- 6. Heavy twisted paper
- 7. Jute filler
- 8. Heavy outer impregnated cover

"Making it Easier for the Contractor"

Triangle Conduit Co., Inc.

General Offices: Dry Harbor Road & Cooper Ave., Brooklyn, N. Y.

Factories

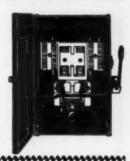
Brooklyn-Chicago-Butler, Pa.

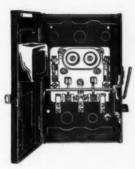
In Canada
Triangle Conduit Co., Ltd., Toronto



WADSWORTH Plays Safe!

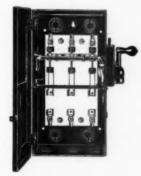
No. 1843
Accessible Fuse
60 Amp. Single Phas
Meter Test Type





No. 1423

Showing Simplicity of Wiring Connections, Ease of Inspection and Testing



No. 9561

New Quick Make-Quick Break Industrial Switch of 60 Amp., 250 Volt Note all Breaking Mechanism on Outside of Cabinet



No. 372 and 362

Sealed Main Fuse Types Branch Circuits in same Cabinet TWENTY-TWO years ago, "Wadsworth" conceived and reduced to practice the first real accessible fuse 100% safety switch. The original thought has never been deviated from and it is now accepted as the Model Switch to follow.

This march of progress has been steady and away out in front, the leader, Wadsworth has played a prominent part in its continual development to perfection. Today, because of the modern machinery and production methods you can purchase the genuine high-grade Wadsworth Designed Safety Switches at no greater cost than other makes.

The Use of Wadsworth Switches
Insures Faster Work through Easier Wiring
Quicker Installation; a neat completed Appearance

Less Time on the Job—more Profit on the Books

Specify and demand Wadsworth Switches. Result: Satisfied customers—more business for you.

OUALITY

Wadsworth Electric Safety Switches are designed by a practical electrician who knows your wiring problems and this means a positive help to you in your business.

SERVICE

95% of all orders are shipped within twenty-four hours after being received.

CO-OPERATION

There is probably a Wadsworth Distributor near you who can give you immediate delivery. Do not accept any substitute. If you cannot get Wadsworth switches from your Jobber, wire or write us and we will see that you get prompt service.

"There is a Wadsworth Switch for every installation."

Complete Catalogue mailed on request.

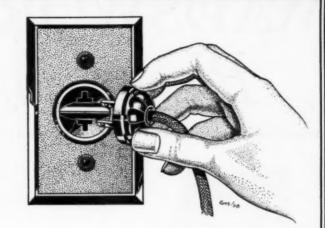
Covington. Kentucky.

OUR MOTTO: Quality Goods-Prompt Service

Connects Quickly—Reliably

It's a Bryant Cap, a Bryant single receptacle with concave boss and finding rib, covered with a Bryant "Templus" plate.







Connects Quickly—Reliably

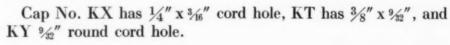
This Bryant brown "Templus" plate, No. OF51, aids materially in the sale and use of electrical appliances. It protects the user from any possible electric shock. "Templus" is a type of phenol resin composition having high dielectric properties and great mechanical strength. It is not affected by very high or low temperatures and will not burn. It retains its color, is odorless and will not warp or crack.



This brown composition single flush receptacle with side wiring terminals is really "convenient." The concave boss and "slot finder" enable "the man with the extension cord," to make rapid and easy connection. The prongs of the cap slip instantly into the slots regardless of the location of the receptacle.

The Bryant Cap is distinctive in appearance, easy to hold and lasting in service. The Bryant method of shaping and anchoring the prongs and plates for binding screws—each prong and terminal being formed in one piece, assures a durable cap. Staked No. 6 binding screws hold the wires of the extension cord firmly.

Bryant caps, receptacles and attachment plug bodies fit together accurately.





Our catalog, illustrating and describing over three thousand "Superior Wiring Devices," sent promptly on request.

THE BRYANT ELECTRIC COMPANY

BRIDGEPORT, CONNECTICUT, U.S.A.

New York

Philadelphia

Chicago

San Francisco

Manufacturers of Superior Wiring Devices since 1888
Manufacturers of Hemco Products



ing slide is closed

ELECTRICAL DIVISION

W TORE . BOSTON . PHILADELPHIA . CHICAGO

HARTFORD, CONNECTICUT, U. S. A.

DEVICES POR I V CERVES	COURTS FOR A POUR PARTIES
DEVICES FOR J K SERIES	COVERS FOR ABOVE FITTINGS 1
Slank Cast Cover	Moral Cond City
SERIES V VAPORPROOF TYPE Crouse Hinds or Similar	Metal, Cord Grip
Prices are for Iron Fittings and include Guard and Globe Form 75	Rubber Gasket 98 58 84 8.
7-VA Complete as Above	Metal, Nip
Prices are for Iron Fittings and include Guard and Globe Form 200 14" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	DEVICES FOR ABOVE FITTINGS
B-VC-VL Complete as Above. 7.15 7.28 7.35 7.26 7.27 7.28 7.35 7.28 7.35 7.28 7.35 7.28 7.35	Lamp Recept. without Shade Holder Groove PR. \$.35 \$.42 \$.49 \$.56 Porcelain for Weatherproof Socket WP2. 28 Polarity Plug Receptacle 10 Amp. P. 56 63 .70
PARTS & ACCESSORIES FOR V SERIES	Sgle. Dble. 3 Pole Pole Pole
Form 75 200 Guard with Half Metal Shade. \$3.90 \$4.20 " Gauge Metal Shade 6.50 7.80 " without Shade 2.34 2.95	Snap Switch 5 Amp. 125 Volt Non Indicating. \$.70 "" 5" 125" Indicating. .77 "" 10" 125" Non-Indicating. 1.12 "" 10" 125" Indicating. 1.26 1.47 1.48
	TYPE FS FOR FLUSH DEVICES "Kondu" or Similar Type 1 Gang 2 Gang
iealing Plate Iron Galv. Finish	FSE-FSB \$1.05 \$1.26 \$1.40 \$1.82 \$2.03 \$2.2
VAPORPROOF FIXTURES For Type GS Fittings	FSC-L & R 1.33
(Page 89 Crouse Hinds Catalog No. 2000) Form 75 Form 200 Iron Brass Iron Brass	Type 3 Gang 4 Gang 4 W 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"
Pendant or Bracket Type Complete \$7.93 \$11.18 \$8.80 \$12.42 Receptacle Only	FSE-FSB. \$2.76 \$2.97 \$3.36 \$3.6 FSC-L&R 3.08 3.36 3.71 3.9 FST
NOTE: Above numbers and figures are for Crouse Hinds' make or similar	FSU
FITTINGS, THREADLESS	Covers for Above
STANDARD TYPES "Kondu" "Appleton" or Similar	Blank Metal Plate. Gang Gang Receptacle Plate. 28 .38 38 38 38 38 38 38 38
Types	TYPE "O" FOR SNAP SWITCHES, ETC.
3	Type 5 Amp. 10 Amp.
74 94 1.33 2.03 2B 1.04 1.34 1.86 2.80 D. .74 .94 1.29 2.03 E .53 .67 .94 1.48 B-LF-LL-LR .81 .98 1.40 2.17 E .81 1.09 1.71 2.66 I-TL-TR 1.04 1.34 1.35 2.80 TB 1.47 1.82 2.38 3.64 J & UB .91 1.12 1.54 2.52 C 1.33 1.82 2.45 3.43 KB 2.03 2.52 3.29	OC .05 .05 .01 1.05 .1.05 .91 1.26 1.6 OCB 1.19 1.54 1.33 1.75 2.2 OE .56 .77 .70 .98 1.2 OEB .91 1.12 1.05 1.33 1.7 OL .91 1.12 1.05 1.33 1.75 2.2 OT 1.19 1.54 1.33 1.75 2.2 OT 1.19 1.54 1.33 1.75 2.2 OTB 1.54 1.96 1.68 2.10 2.8 OU .77 1.05 .91 1.26 1.6
Types 1½" 2" 2½" 3" without Covers \$1.61 \$3.15 \$6.65 \$8.10	OUE. 1.19 1.54 1.33 1.75 2.2 OX. 1.54 1.96 1.68 2.10 2.8 OXB. 1.89 2.31 2.03 2.52 3.3
1.96	Type 36.7 34.7 34.7 34.7 34.7 OA. \$1.05 \$1.19 \$1.6 OC. 1.19 1.40 1.9 OCB. 1.61 1.96 2.5 OE. 98 1.12 1.4 OEB. 1.33 1.54 2.1 OL. 1.33 1.54 2.1 OLB. 1.61 1.96 2.5 OTB. 1.61 1.96 2.8 OU. 1.12 1.47 1.9 OU. 1.12 1.47 1.9 OUE. 1.61 1.96 2.5
SPECIAL FITTINGS	OX
H Couplings \$32 \$48 \$8.3 \$1.11 KO Box Connector .20 .29 .67 1.34 NO " .24 .31 .56 .84 SCA Cable Connector .13 .17 .24 SLP Short Elbow39 .52 .83 1.00	COVERS FOR TYPE "O" FITTINGS 5 10 20 Amp. Amp. Amp. Amp. Amp. 8.21 \$.28 \$.38 Porcelain Cover, Round with holes
	Porcelain Cover, Round with holes
KOL Box Connector .43 .57 .98 1.54 KOR Reducer .58 .63 H Couplings \$1.54 \$3.21 \$4.00 \$6.37	Blank Metal Cover with 1/4 male or female nipple 35 .42 .4
KOL Box Connector	

REDUCING BUSHINGS Large End %" 1" 1\hstyle" 1\s' 2" 2\hstyle" 3 Small End \hstyle" \$.41 \$.53 \$.71 \$.80 \$1.05 \$1.40 \$1	3"	"CONDULETS" Form 6	
" 1 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1.50 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.55 1.67 1.86	F Type Ent. Fitt. with Porc. Cov \$40 \$.45 \$.60	136° 8.95
" " 132" 1.51 1.90 2 " " 22" 2.27 2	2.42 2.42 2.97 3.26	F Type Ent. Fitt. with Porc. Cov \$1.60 \$2.85	3"
FITTINGS, SPRAGULETS, WIRELETS	_	LB Type Ent. Fitt. with Metal Cov 1.40 2.45 "ELECTROLETS"	****
OR T & B		FB Angle Firt, with Cov. 703-83 . \$40 \$50 \$ 48	116" \$1.00
BRANCH TYPE	_	KA End Fitt. with Cov. 1013 to 43	1.30
	Price Each	Y Capped Elbow Y1 to 5	1.75 3" \$8.50
Branch Body for 1/4 & 3/4 "Rectangular Shape SP-48241 \$ Cover Metal Flat Closed	.11 .11	KA End Fitt. with Cov. 1013 to 43. KB Elbow Fitt. with Cov. 1113 to 33. SLB Elbow Fitt. with Cov. 1 to 4. Y Capped Elbow Y1 to 5. 2.10	
" Pendant Type with ½ Bushing. SP-48C8 " Pendant Type with ½ Bushing. SP-48C11 " With 16 Male or Fendan Nipole SP-48C22 # 23	.12 .16 .30		
" " three or four wire Holes SD 48077 & 78	.41 .14 .15	G. E. See T & B below	
" ½ Male or Female Nipple SP-48C82 & 83	.29	GEE-VEE	114"
SHALLOW TYPE Series 14		F Service Cap Series 6000	\$1.00 1.00 .85
G.E., Steel City or P.	Price	B " " 2000 & 2100 37 .45 .65 FB Universal " 3000 1.00 1.25 1.65	2.75
Cover Metal Flat Closed	\$.35 .11 .11	Service Elbow " 19000	1.90
" with 1/4 or 3/4 Male or Female Nip. SP-14C11	.12 .16 .29	114" 2" 214"	3"
35-36	.14	F Service Cap Series 6000	\$7.70 7.70 4.15
" Porcelain with one or two holes SP-14C75 & 76 " " Three or Four holes SP-14C77 & 78	.35 .14 .15	FB Universal " 3000 3.75 5.40 9.50 Weathercap " 40122	12.70
Cover Porcelain with 34 Male or Female Nipple. SP-14C82 & 83 "	.29 .41 .26	Service Elbow " 19000	7.40
with Uno Shade Holder SP-14C67 DEEP TYPE	.60	"GEM POWERLETS"	
Series 34	Price	MA Fittings with Porc. Cover	136° 8.70
Description T&B Numbers E Body Deep Octagonal Shape 1/2" & 1/4" SP-34461	Each 8.47	MF & MFF Fitting with Porc. Cover 47 60 .70 MFB Fitting with Porc. Cover 35 .50 .65 MLB Fitting with Metal Cover 52 .58 .85	1.75
Cover Metal For Flush Switches. SP-34R2 & 3 " Rotary Switches. SP-34R4 " Receptacles without Door SP-34R5	.14	MY	1.65
" " Receptacles with Door SP-34R6 " " Standard Dble. Plug Receptacle SP-34R7	.14 .41 .14	MRA	3"
" Chapman Recept, with Doors SP-34R9 " For GE 30 Amp. Polarized Plug Recep. SP-34R13	.60 .17	MA Fitting with Porc. Cover \$.90 \$1.90 \$3.50	9.00
" GE Tumbler Switches	.14	MF & MFF Fitting with Porc. Cover. 1.90 3.30 7.40 MFB Fitting with Porc. Cover MLB Fitting with Metal Cover 1.70 MPA Fitting with Porc. Cover	*****
COUPLINGS	Price	MY. MRA	
SP-1410 Complete Coupling for 1/2" Conduit	.24	T & B	11/4
FITTINGS, ENTRANCE	_	Ent. Cap 1525-32 with Cover	\$1.00 1.80
"ADAPTI"	11/8	Angle Insulets 1640-1-2 with Cover	*****
Ent. Ells with Cov. Ser. 1100 \$.50 \$.60 \$.65 \$1	11/4" 11.35 1.20	Ent. Cap 1525-32 with Cover	\$8.50
to 79	1.20	Insulets 1610-11-12 with Cover	*****
Ent. Ells with Cov. Ser. 1100 \$1.80 \$2.85	7.65	Cable Insulets 2000 with Cover	
Simul Par Care M. 2010 2011	7.50	FITTINGS, "ADAPTI"	
"UNILETS"	1/2	ROUND "ADAPTI" BOXES	
FB Elbow with Cov. 1713 to 1635 .50 .60	1.70	Series Numbers Style 1/4" 3/4" No. 02900	1°
FC End Fitt. with Cov. 1723-33-43	1.95 1.35 3"	No. 3000 to 3005 1 Side Outlet	.60
FEB Elbow with Cov. 1700 & 1900 \$1.90 \$3.25 \$7.50 \$	9.00	No. 31700 to 3175	.74
AY Angle Fitt. 1950 to 54 2.35		No. 3270 to 3275	1.00 .98
"BEND HICKS"		No. 33001 to 33051 1 hrdis " " " .52 .95	1.07
	11/75 11.75	No. 3400 to 3405	1.20 .75 .80 1.08 1.34
	\$7.50	No. 4800 to 5005 4 " .94 1.03	1.34
arawi vity arwi			01

ROUND	"ADAPTI"	BOXES—Continued
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Series Numbers		S	tyle	134"	136"	2"
No. 02900	1	Back	Outlet			
No. 2900-1-2-3		66		\$1.10		
No. 3000 to 3005	1.8	Side	Outlet	1.30	\$2.00	\$2.75
No. 3100 to 3105	44	44	44	1.10	1.80	2.40
No. 3100T & 3101T Thrdls.	44	44		12142		2.46
No. 31700 to 3175 No. 3200 & 3205		44	44	1.15 1.25	1.85	2.75
No. 3200 & 3201T Thrdls.	2,	44	44			
No. 3270 to 3275	66	66	44	1.40	2.28	2.88
No. 32170 to 32175	68	46	66	1.34	2.20	2.80
No. 3300 to 3305	3	46	44	1.96	2.68	3.00
No. 3300T to 3305T Thrdls.	66	44	46			
No. 33170 to 33175	66	48	44	1.70	2.75	3.10
No. 3400 to 3405	4	66	44	1.87	2.90	3.35
No. 3500 to 3705	2	46	44	1.40	2.28	3.35
No. 3800 to 3805	**	44	44	1.40	2.28	3.35
No. 3900 to 4005	3	44	**	1.85	2.90	4.00
No. 4800 to 5005	4		-	1.95	3.55	4.70

PARTS for Above Boxes

	For Above Boxe	85		
Series No. 80J-501-602 500X-501X 501A 5050 520 to 522 530 540 to 542 50 to 54 50 to 54 50 to 65 70 to 75 90 to 93 100 & 101 10 to 113 120 to 125	Description Base Only Extension Ring Base Concealed to Expd. "with Tapped Boss Base " " Metal Side Plates Insulated Side Plates Armd. Flex, Side Plates Angle Outlet Elbow Outlet Connecting Outlet Straight for No. 500 Base "No. 501" "No. 502"	36" \$.27 .27 .67 .34 .40 .27 1.80 .27 .14 .16 .34 .15 .24 .28 .15 .28 .47	\$.27 .27 .67 .40 .27 1.80 .27 .14 .16 .43 .24 .30	1" \$.54 .40 .67 .80 .52 .52 .20 .34 .52 .43 .50 .25
130 to 135 140 to 145 300 & 301 310 & 311	" No. 503 " " No. 504 " Threadless Outlet	1.08 2.67 .20 .34	1.33 3.08 .28 .40	1.60
Series No. 500-501-502 500X-501X 501A 0500 510 to 512 520 to 522	Description Base Only Extension Ring Base Concealed to Expd. " with Tapped Boss Base	134° \$.54 .40 .67	114° \$1.08 1.60 1.08	\$1.08 1.60 1.08
530 540 to 542 30 to 35 40 to 42 50 to 54 60 to 65 70 to 75 90 to 93 100 & 101 110 to 113 120 to 125 130 to 135 140 to 145	Metal Side Plates Insulated Side Plates Armd. Flex. Side Plates Angle Outlet Elbow Outlet Connecting Outlet Straight for No. 500 Base "No. 501" "No. 502" "No. 503" "No. 504"	.52 .20 .34 .67 .48 .55 .55	1.08 .38 .67 .94 1.00 .30 	1.08 .38 .67 1.08 1.14 .47 1.07 2.40 4.67
300 & 301 310 & 311	Threadless Outlet			****

COVERS For Round Adapti Boxes

Numbers	Description
1	Porcelain One Hole Cover
2	Metal For Devices
3	Porcelain One Hole Cover
1	Porcelain.
5 & 6	Porcelain. Porcelain with 1/4 Male or Female Nipple
7 & 8	
9 & 10	Malleable with Male or Female Nipple
11 & 12	For "Adanti" Entrance Fittings See Page DI 12

FITTINGS, "GROUNDULETS"

Style	Number	No Wire	Conduit	Water Pipe	Each
GCA	GCA11	10 to 6	36"	16" to 1"	\$.80
46	GCA12	10 to 6	34"	36" to 2"	. 85
44	GCA22	4 to 1	34"	13" to 2"	1.50
**	GCA32	0 to 000	15-	35" to 2"	2.30
GC	GC1	10 to 6	35"	34" to 2"	.95
**	GC2	4 to 1	32"	35" to 2"	1.70
44	GC3	0 to 000	1"	35" to 2"	2.70
GC For Open Wire	GC92		******	32" to 2"	.75
	GC922			35" to 2"	1.50
GCL	GCL1	10 to 6	36"	15" to 2"	1.00
GCR	GCR1	10 to 6	35"	14" to 2"	1.00
GCE Strap Clamp	GCE12	10 to 6	36"	15" to 2"	1.60
GCE Plug Terminal.	GCE142	10 to 6	34"	34"	.95
GCE " "	GCE242	10 to 6	14"	34"	1.05

GROUNDULET BRASS BUSHINGS

Size	GC151	GC152	GC153	GC154
	\$.10	\$.12	\$.20	8.23
Size Number Price	114° GC155 \$.30	GC156 \$.45	GC1670 \$1.05	3° GC1680 \$1.30

TERMINALS, JUMPERS, STUDS, SCREWS, ETC.

Strap Clamp Terminal with Bolt & Washer No. GCE012	\$1.05
Plug " " " " No. GCE042	.40
Flat Surface Terminal Less Bolt & Lug 1/4". No. GCE1	.40
" " " " " " " No GCE2	. 55
Soldering Lug for GCE Condulet	. 20
Groundulet Meter Shunt	
Groundwet Meter Shunt	1.85
Jumper— 8" Long	3.60
" —12" " No. GC812	4.50
Double End Brass Stud	. 18
Brass Cap Screw for Fastening Lugs 1/6" to 2"No. GC5	. 05
Brass Cap Screw for " "214" to 6"No. GC6	.08
Copper Soldering Lug for 1/2 to 2" Bush. No. GC130	.05
Copper Soldering Lug for 14 to 2" Bush. No. GC130	
" "2½ to 6" No. GC160	. 10
Soldering Clip for 34 to 2" No. GC131	.05
255 to 6" No. GC161	. 10
Ground Strap-Per Foot	. 25
" -Clamp-Each	.35
Groundulet Cable-Per Foot. No. GC800.	.16
G. G	. 10

FITTINGS OR BOX CONNECTORS, ARMORED CABLE

For BX or Armored Cable Description Standard Squeeze Connector %- "Set Screw Connector %- "Slip In Connector %- "Duplex Connector %- "	/4	Size of K. O.	Price Each \$.08 .06 .08
STRAIGHT BOX CONNECTORS	Squeeze or Tangent Type	13.	18 .18 .30 .50 .65 .85
00 DEGREE ANGLE BOX CONNECTOR	Squeeze oor Tangent Type	13: 14:	.32 .40 .75 1.00 1.25
45 DEGREE ANGLE BOX CONNECTOR	Squeeze or Tangent Type	14.	.32 .40 .75 1.00 1.25
PANEL BOX CONNECTOR	Straight Type With Locknut	1	.35 .46 .63 .93 1.30 1.88 2.58
COUPLINGS FOR FLEXIBLE STEEL CONDUIT	For 6 Conduit		.36 .38 .42 .54 .65 .90 1.10 1.60
COUPLINGS FOR RIGID TO FLEXIBLE CONDUIT	For 35" Conduit	•••••••••	.32 .44 .52 .72 .90

FITTINGS FOR "OVALFLEX" ARMORED CABLE

Number	Description	Price
2150-57-60-61	Straps-Fasteners & Bushings	8.02
2159	Toggle with Wire Loop	. 03
2176-2180-2154	Set Screw Connector	.15
2179-2181	Special Box Connector	
2155-2156	90 Degree Box Connector	. 35
412-413	Connector for Ovalflex to Metal Molding	
9050-S	Squeeze Connector	. 10

KNOBS, TUBES & CLEATS, PORCELAIN

	KNOBS	P	rice Each	
Type No. 514 Split Knobs		With Screw 8.021/2	With Nail	Without Screws \$.02
514 Solid Knobs		.03	4.1111	.021/2
Naiht	* * * * * * * * * * * * *	******	\$.0216	
5/5 Screwit		.04		*****
4 & 414 Knobs Solid		.05		.04
No. 9419 Split 11/4x1%			*****	.07
9420 Split 111/6x21/8		****		.12
22 Victor Split	* * * * * * * * * * * * * *			.12
6061 Solid Teleph. 2 Groove		*****	*****	.10
103 & 107 Hemingway Break K		*****	*****	.12
100 & 107 Hemingway Break h	RODS	*****		.15

	19	UDE	,						
&			Len	gth					
der	4"	5*	6"	8"	10*	12*	14"	16"	
1116	\$.0136	\$.02	\$.0234	\$.06	\$.10	3.16	3.22	8.27	
136	.02	.0234	.03	.07	.12	.18	.24	.29	
234	.03	.04	.05	.09	.14	.20	.25	.31	
4	.05	.06	.07	.10	.15	.22	.28	.34	
6	.07	.09	.10	.12	.20	.25	.32	.40	

ELECTRICAL CONTRACTING

Loom & Loom Sundries	PL-15 Molding
CLEATS	FITTINGS—Continued
2 & 3 Wire Standard No. 334 2 & 3 Wire Unelazed Cleats without Screws	No. Description Price Each No. Description Price Each 363C Yoke \$ 06 428A Folding Strap \$ 0.0 365&R 426 Base .60 430 Fixture Rosette .60
Standard No. 334 2 & 3 Wire Unglazed Cleats without Screws. \$.02½ Glazed .05	360 B
128 414B	419A&B Toggle Bolt
LOOM & L-SUNDRIES	421 Lead Shield
LOOM, NON-METALLIC CONDUIT Size Price per Poot	OVALDUCT
SOLDERING LUGS	OVALDUCT FITTINGS
For Wire Size No. 10 Under. 25 36 8. 35 4. 04 8. 35 4. 05 4. 70 5, 90 125 90 125 90 125 90 125 90 125 90 125 90 125 90 125 90 125 90 125 90 125 90 125 14, 17 1000 125 14, 17 1000 125 14, 17 1000 125 14, 17 18 18 19 1000 100 100 100 100	No.
Up to 237 Amps. add 75% to above prices. Over 237 " 50% " " "	MOLDING
CONDUIT LOCKNUTS Also on Page PL-8 Price \$.01 \$.01 \$.01 \$.01 \$.01 \$.01 \$.01 \$.01 \$.01 \$.01 \$.02 \$.	No. 500 2-Wire, price per ft.
For Chain Price Non-Insulating Splicing Links—Any Make—Each	L Cross Plain
Luminous Acorns—See Page PL-4 and Page PL-18.	Elbow Pull Box
MOLDING, NATIONAL	Narrow Fitting
MOLDING	Two Piece Rosette and Block
Nos. 022 & 222 Molding For Two Wires—Per Foot	Reyless Receptacle .526 .90 .5726 .90 .5726 .90 .5726 .90 .5726 .90 .5726 .90 .5727 .95 .90 .5728 .90 .5728 .90 .5728 .90 .5728 .90 .5728 .90 .5728 .90

I N A U G TYPE A-30



Type A-30 across-the-line motor starter for 20 H.P. at 550 and 440 volts; 15 H.P. at 220 volts; 7½ H.P. at 110 volts.

The Condit type A-30 motor starter is the first of a series of interrupting devices in which this new principle of arc prevention is applied, affording results heretofore unattainable with economy and maintenance. Orders will be received on or after March 4.

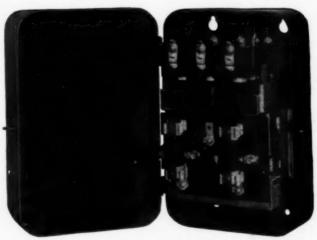
Write for information and prices.

The Condit type A-30 motor starter inaugurates a new era in the design of circuit interrupting devices.

Hitherto, the arc with its accompanying effects of gas and contact burning has been assumed unavoidable in circuit interruption and efforts in the design of circuit interrupting devices have been directed to extinguishing this arc as speedily as possible only after it has formed.

In direct variance to this procedure the type A-30, based on the adage "An ounce of prevention is worth a pound of cure" operates to prevent the arc from forming, thereby eliminating the formation of gas and permitting relatively no contact burning on normal operation.

It is known that prevention of ionization when interrupting a circuit means prevention of arcing. The arc prevention principle of the type A-30 practically prevents ionization. Exhaustive tests show there is only a spark when interrupting currents six to seven times its normal rating and relatively no contact burning, no gas; indicating a minimum of maintenance.



Type A-30 with cover swung back, showing new precision type thermal overload relay.

SPECIFICATIONS: 3 pole for across-the-line starting service with squirrel cage induction motors up to 20 H.P., 550 and 440 volts; 15 H.P., 220 volts; and $7\frac{1}{2}$ H.P., 110 volts.



URATED "Hardly an Arc-Only a Spark"

Results:



Unretouched photograph of arcing accompanying the interruption of the locked rotor current of a 15 H.P., 550 volt squirrel cage induction motor by a contactor type motor starter.

The type A-30 motor starter when tested with a 20 H.P., 440 volt, squirrel cage induction motoropened and closed the locked rotor current 437 times at 10 second intervals (when motor heating compelled the test to cease) without an arc at any interruption—only a spark, and with scarcely perceptible contact deterioration.

Fifty thousand operations at twice normal current on circuits of 55% power factor at maximum rated voltage caused less deterioration than a few such duty cycles on similar rated present devices.

There is hardly an are, --only a spark.



Unretouched photograph of the interruption by the type A-30 under precisely duplicate conditions as that of the old type starter opposite. Hardly an arc—only a spark.

Having no barriers or arc shutes, the type A-30 is unusually simple and compact. It is enclosed in a substantial, pressed steel case arranged for conduit knockouts. Furnished electrically operated with thermal relays for timelag overload protection and arranged for under-voltage protection.

CONDIT ELECTRICAL MFG. CORPORATION

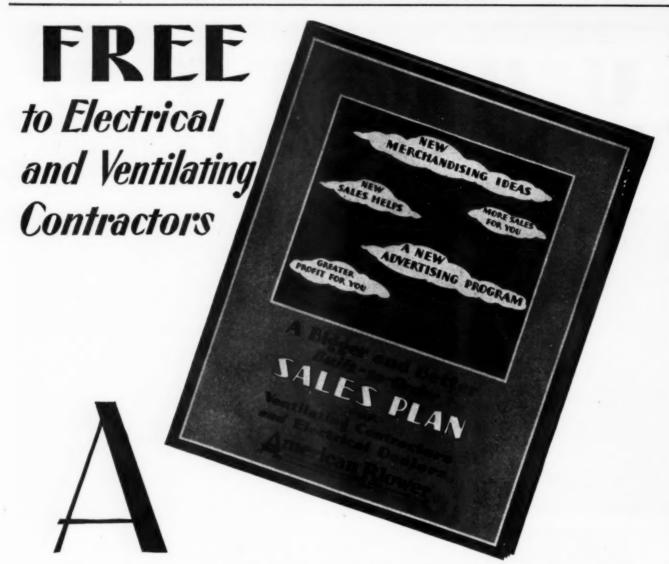
Manufacturers of Electrical Protective Devices BOSTON, MASS.

Northern Electric Company

Distributor for the Dominion of Canada

2696





COMPLETE SALES AND MERCHANDISING PLAN

Tells you where and how to sell Electric Ventilation—gives you complete advertising and sales plans—contains samples of American Blower literature, technical data, and sales helps. Inspect it yourself—visualize your own opportunity in this fast growing business, and remember this sales plan as well as American Blower literature is furnished free to reliable contractors.

AMERICAN BLOWER CORPORATION, DETROIT, MICH. CANADIAN SIROCCO COMPANY, LTD., WINDSOR, ONT. BRANCH OFFICES IN ALL PRINCIPAL CITIES

(844

***************************************	C	0	U	P	0	N	
Please send me, with	out	ob	liga	ntic	on,	you	ur 1929 Sales Plan.
Name		_				_	
Firm							
Full Address							



INCREASE YOUR PROFITS with this Panelboard

YOU can wire to meet the future electrical needs of apartments, apartment hotels, stores or wherever 110-220-volt power may be used, by using the Westinghouse CLP panelboard.

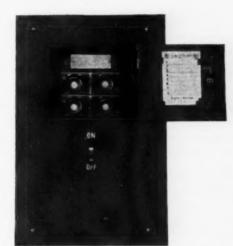
This control cabinet which provides fusing facilities for both light and power circuits, as well as a 60-ampere tumbler switch for range control, enables you to feed the range, refrigerator, water heater, etc., through the one panelboard. The increasing use of electrical appliances makes it feasible to provide for apparatus that will probably be installed in the future. You can obtain a bigger wiring job and increase your profit by using the CLP.

The unit section construction, the adjustable corner iron and the rabbet return moulding—exclusive Westinghouse features that save installation time and expense are embodied in this panelboard. See the Westinghouse panelboard specialist before you estimate on your next job.

Westinghouse Electric & Manufacturing Company Brooklyn Works Brooklyn, N. Y.

Sales Offices in all Principal Cities of the United States and Foreign Countries

T 2000





Westinghouse

	No. 500 ire Size	For No		Maste	No. 500 er Size
No.	Price	No.	Price	No.	Price
Box Connector	\$.34	5781 & A	\$.34		****
Conduit Coupling	.38	5782 & A	.38 .38 .38 .25		
Elbow Box Connector, 1/2" Male 583	.38	5783	.38		
Conduit Elbow, 1/2" Female 584	.38	5784	.38		
Combination Connector585	.25	5785	25		
Offset Connector		5786	.40	1086	\$.6
Openwork Coupling588	. 36	5788	.40	1000	
Kick Plate		0100	. 40	1087	34
RICE FIREC		* * * *		1001	.04

N-SUNDRIES

PIPE NIPPLES Galvanized Wrought Iron Size of Nicoles and Price Fach

		- 1	DIEC OF LAI	ppies a	nd Price	Each			
	Length	Size	Size 34 & 34"	Size	Size	Size	Size	Size	Size
Clos	e Nipples	\$.06	\$.06	\$.06	\$.07	\$.10	3.14	\$.17	\$.20
2"	to 31/2" Long	. 10	.10	. 10	,				
375	to 4'				.12	.15	• • • •	28	.35
4" L	ong	.11	.11	. 10			.22	****	
5"		.12	.12	. 14	. 14	.20	.24	.30	.38
6"		. 14	.15	. 15	. 17	.22	.28	.34	.40
7"		.18	.18	.18	.21	.27	.34	.40	.55
8"		.20	. 20	. 21	. 23	.30	.37	.45	.60
9,		.21	.21	.22	.25	.33	.40	. 50	.67
10"	*********	. 23	. 23	.24	.27	. 37	.40	. 56	.75

NOTE—Above prices are for ordinary galvanized pipe nipples as used by plumbers and steam fitters. If nipples have to be made up from conduit charge the foot price of conduit plus regular labor charge.

CHASE NIPPLES & COUPLINGS

Size Chase Nipples each	34"	36"	34*	34"	1"	114"	134"	2"	216"	3"
Chase Nipples each	\$.10	\$.10	\$.10	\$.15	\$.25	\$.30	\$.34	\$.48	\$.78	\$1.20
For Erickson Cou	plings	see I	age I	L-8.	****					

CHASE MALE REDUCERS CHASE FEMALE ENLARGERS

1 to 14	Reducer,	each	1.15	16	to	.34"	Enlargers,	each	 \$.15
134 174			.40	124		114.			 .30
				114		134"			 .50

NAILS Insulated

			 		-										
Millonite Insulated Nails,	per	dozen	 				 0.6	 		 	 		 . \$.05	i
Leather Nail Heads.		-	 	 			 	 	 	 	 	 		.05	ŝ
Staples Insulated,	-													.05	,

PLUGS, ATTACHMENT

ATTACHMENT PLUGS COMPLETE

																									Pri
Competiti	on F	lug																	 						. 8 .
Pony Com																									
Standard			Hole																						
- Augusta	44	45	LIGIE																						
	-	-78																							
Bakelite	-	Bla	ack or	Bro	WB.					0 0		0 0				0.6		0 1	 						
	-	Gr	een																 						
	-	Fa	wn or	Gre	197																				
Double T	Slor	Parall	el Por	calai	7				• •							0 0		0 1	 				0 0		
Souple 1	3101	Latan																							
	-		Con	apor	utio	n.,					0.0		0 0			0 6			 				0 6	0	
Paraline C				-																					
teel Cove	ered	Cap &	Stand	ard	Bar	ie.													 						
Brass "					- 66																				
Cord Grip			- 4		44																				
ord Offp		.1 .	10																 				0 5		
	Die	el Cove	ered C	ap a	K 2f	an	38	rq	E	58	se.	0.0				0 6		0 1	 0 1	0		0 0	0.5		
olarized	Stan	idard P	lug co	mpl	ete.						0.0				0.0	0 0		0 1	 						
	Hea	vy Dut	v Plus	r wi	th F	Ira	8.5	C	ar	١.									 		_				. 1.
	2 W	ire Hea	vy D	12.00	Place	- 10	:01		č.	·				01		C.			 						
ne Piece	Ann	ach man	A Dlan	7	r res				~	7840	, Ar	001	100	01		•	·	0 1	 	0		0 0			
Jue Liece	Att	acnmer	it Flug	, 00	mp	381	110	n.	0.0	0 0	0 0		9 0		9.0	0.0	0		 	0			0 0		
	Ben	jamin !	903																 						

CAPS ONLY For Attachment Plugs

Parallel	Pony C	ap Com	positi	on												9 0							
	Standar	d Cap	omp	Caltit	on.			::											0 0				
-	-	Metal	Cov	ered	Co	mg	101	nt	01	a				0.0	0	0 0	0	9	9 0				
	-	with (Cord	Grip			•									0 0							
					M	let.	C	01		Ca	m	DO	81	tio	n.								
	Knostra	in Com	positi	on								*	_										
		Bras	Cox	arad																		, -	• •
	D. L. He	e Black	- B-	0100			0.0	0.0		0 0													• •
	Dakent	E DIRCK	or Dr	own.						0.0						0 0	0.5					0	
'olarize	d Stand	ard												0 1				0 0	0.0	0			
		Bras	s Co	vered	1																		
Candem	Blades	Standar	d																				
		Steel Co	Were	d													-						
		with Co	ad C																				
		WITH CO	ru G	np.	1 7		4	3											0.8				
-	-	Steel Co	vere	g Mis	B	LOI	a	G	щ				0.6					0	0.0				
		Knostra	in Co	ompo	Bit	ion							0 0										
			B		Cor	rer	ed	C	OF	np	108	iti	on										
Rev	nolite F	Ian-D-C	an N	0. 47	0-	-8.	30)	N	lo.	4	80	_	2	35				-	-	-	-	-
		aps see					-				_	-		•	-								

BODIES ONLY

Pony Composition	Body only	
Standard *		
	Black or Brown	
	Red-Green-Orange	
Heavy Duty Polar	zed Porcelain	4
Wire -	* *************************************	
	Flasher Plugs	
Diamond Flasher I	Button	3
Skeedoodle Flasher	Plug 60 Watts-\$1.50. 100 Watts	2

PLUGS, APPLIANCE

. Ma				_ 1	Vum!	ber	& De	scripti	on			Price	Each
American	Beauty		Plug	Comp	plete	for	Smal	Iron					\$.50
	-	806	-	-		-	Large	e Iron					1.35
	-	807	-	-		-							. 25
Arrow						**	with	Switch	h				. 85
Beaver													
Bryant			Piug	Comp	plete	WIT	D DAI	tcn.		****	- 00	3	.85
Custon iii		7051	701	- C	-1		AL C.						.65
Cutler-H	mmer	12 1	Fiu	g Con	piet	e wi	th Sv	vitch.	10. 1				.85
Dover		12 6	p Cc	Dinect	or r	lug	ior a;	3 00	ID. I	rons			1.00
Fitsall (R	odale)	P-21	Con	Piug	COL	npie	PO S	-itch					.20
Gripall (I	deaver)	F1 S	Con	Trent	Adi	lug	, no a	WILCH	***				.45
Gripan (1	a della	F4	uper	Type			Alloy	Ontac					.55
		F5			Are	FC!	Alloy	ina					.55
-		F6			2511	6	cu Ca	N N	ick	Alle	Con	tacts.	.60
		Gi	Cris	-11 5-	riech	DI.		h Smi	toh.	Allo	Con	cacts.	.90
		G21	Grij	C.	VICCII		T.	no wit	b C-	itah			.45
Hemco			Heat	er Plu	mpe	S	witch.	be wit	III OW	, seen			.56
Hotpoint		CD	D1 I	er kill	8, 11	0 01							.48
Horpoint		CD	10P1	a r	ing .			Armo	head				.60
				4	S	ieh	Switz	h	eu				1.00
Hubbell.				liance	Swi	tch	Plue						.90
Kool-Pull	(Colta)	Ann	liance	Pine	DO	Smi	tch.						.75
E 6	(Cores)	.App	#	4 108									1.00
Liberty		032	Heat	er Plu	WILL	4 0	WILCOM.	*****					.35
Plugall		9	Appl	iance	Pine	wit	h Sp	ine					.30
		700				- 4	Sw	itch					. 85
Propp		5-0	ne 4	All A	noli	ance	Plus	no S	witc	h			.35
-		22 2	rand	ard ir	on P	1110	no S	witch					.25
		.56 A	rmo	ed									. 55
		.52 I	ron F	lug w	ith S	wit	ch						. 58
P & S		.1550	Apr	liance	Swi	tch	or Pe	ndant					.90
Reynolite		.500	Reve	olite	Cons	ect	or Plu	ig. no	Swit	ch.			.50
		.510	4				4	Wit	h Sw	ritch			. 85
Rodale		.P-67	Oua	lity I	ron l	Plus	no S	witch					. 25
*		. P-23	Arm	nored	4			-					.40
		. P-29)	Bi .		-	Bro	nze Co	ontac	ts			.30
		. P-15	Iron	Plug	with	Sv	witch.						.60
		.800	Armo	ored P	lug	with	Tog	gle Sw	itch.				.90
Security.		.151	Secui	rity A	pplia	nce	Plug	no S	witch	1			.40
Simplex.		.890	Armo	ored A	ppli	ance	e Plug	, no S	witc	h			1.00
Suitzall (Beaver).	.F2	Heat	er Plu	ig C	onte	et Cl	ips					.25
		F22			R	egu	lar Bi	nding	Scre	W8			.25
Sunbeam Torrid		. Hear	ter P	lug									1.50
Torrid		.503	& 508	Appl	ianc	e Pi	ug, V	ariable	e He	at C	OR		2.00
Utillo		.1500	Util	lo Ap	plian	ce l	Plug.	no Sw	itch.				.20
Westingh	ouse	.2994	23 P	lug C	ompl	ete,	no S	witch.					.75
		.3736	556				with	Switc	h				1.00
White Cr	088	. Whi	te Cr	ова Н	eater	Pl	ug, no	Swit	ch				.50
-				4	-		" W	ith Sw	itch.				.90

PANEL BOARDS

BULLDOG FUSENTERS Small Residence Type

No.	Description					12 Circt.
BF Flush Type	-Luminized	\$2.50	\$3.75	\$5.40	\$8.80	\$11.80
BBS Surface Ty	pe—Black with Embossed	2.00	2.80	4.75	*****	*****
	Fronts. —Black—Flat Cover with	2.00	2.75	4.75	8.30	12.05
	Inside Shield	1.85	2.35	3.90	7.15	10.40
BOS , "	-Black-Flat Cover with- out Shield	1.70	2.15	3.75		
BSF Flush Type	-Luminized with Toggle Switch Plate.					
BSF * *	-With 30 Amp. Safto					
BSF	-With 60 Amp. Safto	*****	20.60	22.00	****	
	Fuse		21.75	22.45		******
	-Fusenter & Pull Box N-"Safto Fuse" Switch &	Cutout-	-30 A	mp. or	60 Am	20.00 p. Size.
	Flush Type—\$7.50. Sur —For Resale Prices on all o	rface T	ype-\$	6.50.		
an other Types	facturers' list prices, less 1		nuraok	r usent	cts nie	IMARIU-

TRUMBULL—CIRCLE T Residence Panel Boards

ACCOUNTING A SE		Cont and			
Number Description	Circt.	6 Circt.	8 Circt.	10 Circt.	Circt.
3104 to Single Fusing 2 Wire Mains, 3 3212 Wire Branches	\$2.85				
3404 to Double Fusing 2 Wire Mains, 3					

TRUMBULL-VANDERPOEL

		2					12
Black or Aluminum	Flush	\$1.80		\$2.70	\$4.90	\$8.55	\$13.05
	ELEC	CTRI	ICAL	CO	NTE	RACT	TING

Panel Boards	Receptacles, Porcelain
WESTINGHOUSE Junior Residence Type	RECEPTACLES, FLUSH
Number of Circuits Gray Trim & Galv. Box Flush No. 64012 to 64021. \$1.75 \\$2.25 \\$2.50 \\$4.50 \\$6.60 \\$7.85 \\$10.00 Gray Trim & Galv. Box Surface No. 64052 to 64061 1.75 \\$2.25 \\$2.50 \\$4.50 \\$6.60 \\$7.85 \\$10.00 Toggle Sw. Flush Type No. 64034 to 64042	STANDARD RECEPTACLES OR CONVENIENCE OUTLETS Plates Extra Without Plates Shallow Comp. Side Wired Single \$ 25
RUNNING THREAD, PIPE Price per Foot \$25 \$.30 \$.35 \$.45	* Porc. * Single
SOLDERING PASTE	Plates Extra Except Where Marked "X" For Lift Cover Plate Single
Make 2 Oz. 2 Oz. 4 Oz. Pound Pound	XWith Rd. Met. Cvr. For 3½ Box Single 35 35 36 36 37 38 38 38 38 38 38 38
PAINT & VARNISH Insulating Per Per Per Half Per Gallon Gallon Callon Ca	Disappearing Door Recp. Single
Enamelac 40 .75 1.35 2.20 G. P. Black or Clear 45 .80 1.45 2.60 Lustorac 40 .75 1.35 2.20 Voltolac Quick Drying 40 .75 1.35 2.20 W. P. Black Insulating 40 .75 1.35 2.20 P. & B. No. 2 Paint .55 1.00 1.75 3.00	RECEPTACLE COMBINATIONS With Plates Bryant Numbers or Equal
Pothead Compound, per Pound. For Pipe Straps, see Page PL-25. PLATES & PLUGS, RECEPTACLE PLATES For Flush Receptacles O40 Thick Sprayed B. Brass Sprayed B. Brass	Price Pric
Brass Sprayed B. Brass Sprayed Stand. Recep. Plate Single or Duplex S. 15 S. 20 S. 30 S. 30	RECEPTACLES, PORCELAIN
SUNDRY PLATES For Receptacles	PULL TYPE FOR FIXTURES Keyless & Pull Chain for Lighting
Brass Combination Plate-1 Switch-1 Recep. or Duplex .040 Brass . \$.60	Univ. G. E. Type Price No. No. 1994 2288 8' Insulated Chain and 6 Feet Cord. \$.70 995 2292 8' Chain. .60 60 996 2289 6 Feet of Cord. .60 997 2293 8 Inches of Insulated Chain. .60 998 2287 Short Chain. 60 999 3 Feet of Chain. .75
De Luxe All Metal	ALL WHITE PORCELAIN RECEPTACLES
CAPS OR PLUGS For Receptacles Standard Types Price Pony Parallel Blades Composition \$.10 Standard Bakelite Parallel Blades Composition .20 Tandem .25 SPECIAL PLUGS & CAPS, BRASS COVERED—CORD GRIP	No. (Arrow—Hubbell or P & S or Similar)
### ETC. Disappearing Door Plug Composition	1471
10	1350

RECEPTACLES, SURFACE

SURFACE RECEPTACLES—STANDARD

D.4	1	Base
P.43	ison	nase

De	scription	9			A11	K.	yless			Universal Number	Price
Pony Cler			le Side !	Seren					ve	50715	\$.15
Tony City	Round		Center		. 14			5100		9171	.20
Standard	Cleat		Side	a				-		9402	.30
		*	*		With					4013	.40
Oblong		-	*		4	66		- 86		58300	.55
Concealed	1		Round	Base						4001	.55
				-		Re	mova	ble I	Ring.	50744	. 55
Oblong Re	eceptacle	e fo	r Wood	Moldi						4026	.65
Mogul P	& S. 520	-	Arrow 50	112 or	Hubi	bell	3464				.85
Miniature	or Can	del	abra Sm	all T	vpe					9445-6	.20
	*		Extend	ed						366-7	.25

T-SLOT SURFACE RECEPTACLES

Without Caps

						•												Pri
mall T Slot Concealed Recep.	10	Amp																 8.
" T " Cleat "	4																	
or Wood Molding	-														_			 .1
" Metal "					-			 							_			
Conduit Fittings																		
Conduit Fittings			9 6		9 1		0.0			0 0			0 0	0		0 4	0 0	 - 1
Outlet Box						 0				0 0	0		0 4			0 9	0 0	
with Covered 1	cim	inai.																
olarized Cleat	10	Amp								2 0								 . 6
" Concealed	46																	 . (
* Wood Molding		-																 . 6
" 3 Wire With Cap	-										-							 1.1
" Cleat No Cap	20					 ۰			۰						۰	• •		 - 1
* Concealed No Cap	20		-									 -			-			
	-	-															 	
 Wood Molding No Ca 		-	0 0	0	0 (0		0 0	0		0 1		0 0		0	0 4		
" 3 Wire Conc. With Ca	p *	•								0 0		 0	0 0		0	0 0	0 /	 2.6
Il Porcelain for 31/4" Box Sing	le											 			٠			 .4
· · · · Dun	lex.				-			 										 . 1

BOX & SIGN RECEPTACLES

Edison Base

																			Pri
Shallow	Sign	Recep.																	\$.3
*		44	Conce	aled "	Term.				 	 		 							. 3
			6 Con	cealed	Wire	T	er	m	 	 	-	 							.4
	-		with S	. H.	Groov				 	 		 							. 2
Deep	(6		Screw	Term					 	 		 							
occ.			Conce	aled "	Cerm				 	 		 	0 0						. 5
			6 Con																.4
One Pier			Screw																
		Disease	Screw	I CIH					 	 * *		 							.5
Recept.	AA I CE	Ligite	101 95	DO															
-	-				22.2		0 0	0.0	 	 		 		0 0	0		0		- 5
	-	-	320	. We	athpi		0 0		 	 		 							. 3
			- 4		_				 	 	0 1	 		 					.3
All Porc	elain	for 314	Box.					0 0	 	 	0 1	 				9 0			.4
	-	" 4"							 	 		 							. 5
Brass C	overe	d for 3	16" 80 6	" Box															1.0
		Pull fo	or 314"	& 4"	Box				 	 	0 1	 							2.0

R-SUNDRIES

STANDARD ROSETTES

leat-1 Pie	e Juni	or Fuseless	Rosette	e													 			
. 2 .	_		-	0 0 0		0.0	0 1	0 0	0 0	0.0		0 1	0 0			0 0	 0		0	
. 2 .	-	Fusible															 0 1		0	
oncealed—	Piece	Concealed	Fuseles	a Ro		te.														-
		For Wood	Mouldi	ng-	-Fu	sel														
- :					Fu	sib	le.													
ox Type-	Piece	Rosette for	3% F	ox-	-Fu	sel	CBE		×	* *	* *	*	* *				 *			*
:	Rrass C	overed for	Roves						0		0.0		0 0	0		0 0	 0 1	0 0		1

GROUND RODS

Galvanized, not Copperweld

Size	Price	Price
z5 Feet Each	.35	****
15 4 4	.55	\$.70
16 4 4	.60	.75
x7	.70	
#0	1.00	1.00
i8	1.15	
8	2.70	3.20

RAWLPLUGS

Standard Types

Nu	п	ıt	00	ır	0	f	F	L	87	W	1	ol	u	g										1	Drill Hole	For Screw No.	Price Each
16.													0													6- 7	3.02
8.			0	0				0	0	0	٠	0	0	8 0	0 7	 . 0			0	0	0	٠	0		- 78	8- 9	.03
10.							0	0	0		۰				0 (0	0	۰	۰		0	. 1/4	10-11	.04
12.																 		9	0			٠		0	. 34	12	.05
14.																 									. %	14	.06
16.		0		9	0 1				0			0	0.1		0 4	 		8	۰						. 1/4	16-18	.08
20.	0	0		0	0 1		9		0	0	0	0	0.1	0 1	2.0		0	9	0		9			0	. 3%	20-22	.12
76																											

Rawlplugs for Lag Screws

Size of	Size	Size of		P	rice Ea Length	ch	
Lag Screw	Drill Hole	Rawiplug	134° 8.13 .14	\$.15 .17	\$.18 .20	\$.20 .23	334°
NOTE: For	Expansion Shield	See Page PL	-10.	.20	.23	.30	\$.30

SOCKETS

STANDARD SOCKETS

	Co	mplet	e Sock	ets		Caps	Only		Body
	Pendn		36	14	Penda		36	36	Only
	Cap	Cap	Cap	Cap	Cap	Cap	Cap	Cap	,
Brass Shell Standard Key.	\$.30	\$.30	\$.40	3.50	\$.10	3.10	\$.20	3.30	\$.25
" " Keyless	25	.25	.35	.45					.20
" " Pull	40	.40	.50	.60					.35
" Push		.30	.40	.50					.25
Electrolier Same as Above									
Lock Type (Brass) Key	1.00	1.00	1.10	1.20	.10	.10	.20	.30	.95
" Kevles		.95	1.05	1.15					.90
· · Pull	1.15	1.15	1.25	1.35					1.05
a a Push.	. 1.00	1.00	1.10	1.20					.95
Porcelain Key	55	.65	.70	.90	.15	.30	.35	.50	.40
" Keyless	50	.60	.65	.85					.35
a Pull	1.00	1.15	1.20	1.40					.90
* Push	75	.80	.95	1.10					.60
Levolier Pull Socket	40	.40	.50	.60					.00

BASES FOR SOCKETS

For Brass Shell Sockets

nall Concealed Base																								1	
" Brass : overed	Base.											0	0 0	0	0 0		0 0	0 1			0 0	۰	0 0		
Box Base Brass C																									
eat Base for Open	321-1	0 0		0 0				0 1		0				0											1.0
eat Base for Open	wiring.	0 0		0 0		0		0 1		0	0 0	٠								 		۰			- 1
ood Molding Base.				0.0		0	0 0		0 0		• •			0		0		0 1							
agle Base			0		0	0	0 0		0 0	0	0 0	0			0 4	0 0		0 1		 					- 4

For All Porcelain Sockets

All	Porcelain	Clea	t Bas	e				 						 		 		 	Pri
-		Con	cealed	Ba	se.		 	 											
	-	For	Wood	Me	old	ine	-	 					-			 -	 •	 	
-		314	Box 1	lase											 *			 	
		4		"															

BAYONET SOCKETS

Sometimes Called Wall Sockets or Receptacles

Keyless	Brass	Shell	with	Small	Conc. or Covered	Slotted	Base	 	50717	& 18	\$.40
	44		-	Large		4		 	. 60020		.90
Key	-		-	Small	Conceale	d Base.		 	9184		.65
			-		Covered			 	60018		.65
			with	Remo	vable Rin	9		 	50747		.65

WEATHERPROOF SOCKETS

Standard Weatherproc	of Pigtail molded	or Porcelain	\$ 25

CANDLE SOCKETS Any Make

Keyless Candle Socket with Tube & Solid Open or Adjust. Hickey \$.22	5
Tumbler Type Candle Socket with Tube & Solid Open or Adjust. Hickey 50	Ö
Pull Chain Candle Socket with Tube & Solid Open or Adjust Hickey	×

CANDELABRA OR MINIATURE SOCKETS

Keyless	Porce	lain	with	Mal	e T	h	rea																.3	5
	Brass	She	11 14	Can	wie				0 0			 				•		• •		6 1	 0 .		. 5	8
Kev	4	-	12	4								 			 								.6	5
Pull	*	-	1.2	*															•	-		 1	3	

DIM-A-LITE & LO-LITE SOCKETS

Dim-a-lite	#23-\$1.00
*	33-1.25
	34-1.25
*	91-1.50
Lo-Lite	1.00

SOCKET ACCESSORIES

Adaptors for Sockets—See Pages PL-4 and 18. Aworn Hubbell 5919-6982-7004—or Similar—Each
Acorn Luminous Hubbell 7015 Bryant 750 GE 860-or Similar-Each 30
Bushings Hard Rubber 36" Each .01c-36" Each
Chain for Pull Sockets—Per Foot
Cord for Devices—Light Type—Per Foot
Cord for Devices-Heavy Type-Per Foot
Handles for Sockets-Bryant 1240-1388-or Similar
Splicing Links Non-Insulating for Chain—Each
Splitting Links Rominated for Chair Fach

ELECTRICAL CONTRACTING

SOCKETS, HEAVY DUTY

				MC	GUI	LS	OCKE	rs			
A	rrow	-Br	yant-	-G.	E	Hul	bbell-	H. & F	I. and	P. & S	5.
							ithout e or Cap	With 3	or 1/2	With 3/8	Or 1/2
orcel		ne Piece					\$.65 .80	\$.		\$.9 1.1	5
	O	ne "	with l	Lead	Wires.		.80		95	1.1	0
Srasa	Shell	Mogul	Socket	% OI	12 B	314	Cap Shadeho	older			\$2.9
		-		with	Porc.	Bas	e for 314	& 4" Bo	xes		2.9
*	•	•		*	*	*	& Shace	deholder	Boxes.		3.3

HEAVY DUTY WEATHERPROOF SOCKETS Copper or Aluminum Piece Keyless ¾ or ½ Cap......

Piece	Keyless	% OF	36 (Cap.			 	 		 	9			 0 0			 	4	δ.
	•	with	Core																
	•	% or		Cap.															
		with	Core																
	Pull	36 or	36 (Cap.			 	 		 				 	 				1
		With	Cor	d G	rip		 			 				 	 ٠.				1
hadeh	olders fo	r abor	ve so	Ext	s.		 	 		 				 	 				
34				46			 	 		 				 	 				
	4			-			 	 		 				 	 				

HEAVY DUTY & REFLECTOR SOCKETS Benjamin

													Each
Benox	Keyless	Socket	with Clamp	Ring #470	00 to	470	3						 \$1.25
	- 44	-	without "	471	2 to	471	5						 1.10
	Pull	-		470	06 to	470							 2.00
Benco	Keyless	Socket	Copper or A	lum. #420	0-1-4	-5 &	43	35	& 1	7			 .80
		*	Brass #4202										
	Pull		4207-8 4225	-26 4236-3	7								 1.55
	Mogul		Copper She	1 #4210-42	97								 2.25
Benco	Threade	ed Hold	ers Only rf—#4215 &	4217				214	6		3	55	4"
Coppe	F	*	- 4370-72	2 & 73				- 3	25			55	\$.90
	d Brass		-4377-79									55	.90
Reflect	tor Sock	ets Porc	elain 3/4-1/	or %									
Keyler	a with 3	Type	Fitting 4605	-9-51-50 &	65.								 \$1.20
Self La	ock Sock	et with	X Fitting 4	528-29-32-	33								 1.70
Shock	Absorbi	ng Sock	et with X F	itting 4676	-77-7	78-80	-81						 1.60
			Locking wit										

SWITCHES, FLUSH TUMBLER

			P	lat	tes	8	Be	X	e 8	1	Č,	t	ra	1								1	P
Square	Handle	Porcela	in C	ap-	-Sg	1. P	ole															. \$	
		-				ble.	66													 			1
-		-			3	Poi	nt.																
					4																		1
		Compo	eition	C	10-	-Se																	-
		Compo					ble.																1
							Poi															۰	î
						4	. 0.																î
Pauad	Mandle	Porcela	in C	10-	-6-	1																*	•
Keuna	Handle	Loiceia	III C	ap-		ble																	1
						Poi																	*
					4	FOI																	1
	-	0			4	0																	
-	-	Compo	BITIOI	1 (ab-																		1
-	-					D	ble.									• •							1
-	-			-		3 .	Poi	nt.														0	1
				_		4	. "														0 0		1
New 2	Circuit	Type D																					1
			rigle-																				1
•	-	" Si	ngle	& 3	-W	ay	Typ	pe.										 	 				1
Lock T	ype Por	celain (up-	-Sgl	. P	ole.												 	 				1
	4	-		Db	le.														 			0	1
		-	4	3 I	oit	it													 				1
				4	44																		2
EXTR	AS-Fo	r Lumir	ous '	Tip	ad	d fo	r E	ac	h	H	ar	di	e.						 				8
		r Glo G													ac	h		_	 				ĩ

TUMBLER SWITCH COMBINATIONS

				W	ith Pl	ates		Price
Bryant	2957-2979	One	Tumb.	Sw.	-One	Flush Recep. Brass or Temp. Pilot Light .060 Plate	P	\$2.00
H & H	8887 8809		4	4	46	Bulls Eye .060 Recept. Bulls Eye Solid		3.25
	8805				plex	* * * *		5.60
Hubbel	17163 & 7	164 S	witch T	ap (Combin	ation No Plate		2.15

PLATES For Tumbler Switches

A OI A UII	IDICI ON	recite	3		
			Pri	ce	
		1	2	3	4
		Gang	Gang	Gang	Gang
Stamped Brass Sprayed Finish .040			\$.30	\$.45	\$1.35
Brush Brass " .040	*		.40	.60	1.55
" Sprayed " .060		00	.40	.60	1.70
Brush Brass " .060		.30	.60	.90	1.85
Bakelite or Composition Molded			.40	.60	.80
Twin & Triple Struck Up Plates			.30	.30	
" Solid Brass "			.50	.50	
Hubbell Bakelite Screwless Plates			1.10	1.55	
Bryant DeLuxe Wood Inlaid any Fi	nish	2.25	3.90	6.25	
" All Metal "	4	.85	1.50	2.00	
Guth Porcelain Enamel Plates		.30	.60	.90	
Glass Mirror Plates		1.00	1.75	2.50	3.25
Combination Switch & Receptacle P	late Molde	d			40
	" Brass	.040 th	ick		50

SWITCHES, FLUSH PUSH

				Plat	e & 1	Box	res	E	xt	ra	ı										
																				F	Pri
Stand	lard S	hallow	Type P	orcelai	n Cup					e.							 				
,				-		- 1	Do	ıble					 				 			. 1	1.
,	×			4		3	P	oint					 				 				
4	8	44		4	46	4														1	1.1
Deep	Type	Porcel	ain Cup	Sing	le Pol	e															
4	4	4	-	Dou									 	• •		-	• •	• •		1	1
4	46	-	-		int			***	* *	* *				* *			 	• •		1	1
	4			4							* *	* *		* *			 				1
ineni	al Con		on Cup-	Cinal	- Dala	***											 . 1		* 1		1.
Speci.	ai Con	npositi	on Cup-																* *		
				Doub													 		* *		1.
		-	-	3 Poi	nt						* *		 				 		* 1	. 1	1.4
	_	- " .		4 "													 		* *	. 1	1.6
Lock	Type	Porcel	ain Cup			e											 		* *	. 1	1.4
		4	4	Dou	ble "								 				 			. 1	1.1
4	4	-		3 Po	int								 				 			. 1	1.1
66	66	- 6	44	4	a .	200			0.0					-	-					9	2.5
Electi	rolier 1	Non-Ir	dicating	, ^	* *						* *						 				1.
		Indicat											 				 		**		1.
Extra	for L	umino	us Butte	n Add	Per S	Swit	ch						 				 				. 4

PUSH SWITCH COMBINATIONS

	*				With	n Pl	ates			Price
Bryant	117	D. F	. Indi	cat. Swi	tch Flu	sh R	eceptacle	& .060 Plat	e	\$2.00
	413	One	Push !	Switch-	Bulls E	ye an	d Solid F	late		4.25
	518	-	**	-	Disap.	Door	Recp. Bu	ills Eye-So	did Plate	7.35
	465	#	D. P.	Flush S	witch &	Pile	t Lamp	.060 Plate		3.50
	467	-	Flush	Switch-	-Flush	Reci	enBull	Bye-Solie	l Plate	5.75
	558	46			Duple					6.30
H&H		2 4	-	44			-Solid P	late		
	3759			-	*	-4	Duplex	Recep. Soli	d Plate	5.50
	8810						Single	* 501		5.30

PLATES

For Flush Push Switches

					1	2	3	4
	Descri	ption			Gang	Gang	Gang	Gang
Stamped Brass	Sprayed	Finish .	040 Th	ick	\$.15	\$.30	\$.45	\$1.35
4 4	Brush B	788 W	040		.20	.40	.00	1.55
4 4	Sprayed		060		.20	.40	.60	1.70
	Brush B		060 4		60	.60	.90	1.85
Bakelite or Con						.40	.60	.80
Hubbell Bakeli	te Screwl	ess			:60	1.10	1.55	
Bryant DeLuxe	Plates V	Vood In	aid		2.25	3.90	6.25	
4 4		Il Meta				1.50	2.00	
Guth Porcelain	Plates				.30	.60	.90	
Glass Mirror P					1.00	1.75	2.50	3.25
Combination P	ush & Re	centacle	Plates	.060 B	rass			
4	4 4	4						
		-		Guth I	Enamele	4		60

SWITCHES, SURFACE SNAP

METAL COVERED SNAP SWITCHES

Poles	Volts	Type	Size	Amp.	Amp.	Amp.	Amp.
Single	125	Non-Indicating	Pony	\$.35			
-		Indicating		.40			
-		Non-IndicatingS	tandard	. 55	\$.75	\$1.45	\$2.10
	-	Indicating	-	.65	.85	1.60	2.20
Double	250	Non-Indicating	-	.90	1.10	2.20	2.55
*	*	Indicating	-	1.05	1.15	2.40	2.70
Triple		Non-Indicating			2.80	3.60	4.35
4	-	Indicating			3.00	3.75	4.50
3-Way	125	Non-Indicating	-	.90	1.25	2.25	2.70
4-Way	250	Non-Indicating		1.30	2.85	6.00	
Electrol	ier	Non-Indicat. 110V		1.35	1.35	2.10	
*		Indicating 110V	*	1.50	1.50	2.25	****

ALL PORCELAIN SNAP SWITCHES

Poles	Volts		Size	Amp.	Amp.	Amp.	Amp
Single	125	Non-Indicating I	Pony	\$.50			
	125	Indicating		.55			
-	125	Non-IndicatingStr	andard	.65	\$.85	\$1.60	\$2.40
	125	Indicating		.70	.95	1.75	2.58
Double	250	Non-Indicating	46	.95	1.20	2.45	2.85
	250	Indicating		1.10	1.35	2.60	3.00
3-Way	125	Non-Indicating	4	.95	1.35	2.60	3.00
4-Way	125	Non-Indicating		1.50	3.00		
Electrol		* *		1.55	1.55		
		Indicating		1.70	1.70		

TUMBLER OR TOGGLE SNAP SWITCHES

Metal

125-250 Volt	Single	Double	3	4
	Pole	Pole	Point	Point
5 Amp. Closed or Slott. Base	\$.35	\$.85 1.10	\$.80 1.25	\$1.40

SNAP SWITCHES FOR WOOD MOLD, CONDULETS, ETC.

		Metal (Covered	All P	orcelain
5 Amp. 12	5 Volts	Indicating	Indicating	Indicating	Indicating
Single Pole		\$.65	\$.60	S .75	\$.70
Double "		1.10	1.05	1.20	1.15
Three Point		1 . 10		1.20	****
Electrolier		1.40	1.40		

PARTS FOR SNAP SWITCHES Price	
Handles—Standard Type Each \$.12—Ratchet Type	BABY KNIFE SWITCHES Any Make Porcelain Base 125 Volt 250 Volts 15 Amp. 30 Amp.
CANOPY, LEVOLIER, ETC.	Triple " Single " 1.25 1.55 1.45 1.85
PULL CORD SWITCHES Complete With 1/2 Cap, Small Socket Type With 1/2 Cap, Small Socket Type With 1/2 Female Brass Cap Price \$1.00 Wall—Side Pull 1.00 Rosette—Bottom Pull 2.10 1.00 1.25 1.00 1.25 1.00 1.25 1.00 1.25 1.00 1	TYPE "C" KNIFE SWITCHES
HEAVY DUTY PULL CORD SWITCHES, METAL COVER With 8 Feet Heavy Cord	" * 200 A 7.75 12.00 18.50 24.80 15.80 20.75 32.00 38.00
S.P. with Small Porc. Slotted or Solid B	SWITCHES, RESIDENCE, METER SERVICE, INDUSTRIAL, ETC.
TYPE "O" PULL SWITCHES For Ceiling Fixtures or Ceiling Fans Single or Double Pole—3 & 4 Point Electrolier & Motor Control—Similar to Bryant #2473 to 2480 with % Caps, cord & Ball Each	SMALL SERVICE ENTRANCE SWITCHES 30 Amp. "Square D" Switches Residence Type
CANOPY SWITCHES Price	Numbers Volts Description 2 Pole 3 Pole 97211-97311 125 For Plug Fuse Solid Neut. \$1.65 \$2.50 99211-99311 125 " Neut. Fused. 1.65 3.00 78211-78311 125 " Meter Test. 2.55 4.05
Snap or Tumbler Canopy Switches any style any make (except below)\$.40 Pull Type P & S—3316 or 17—Arrow 340—Bryant 666	1211 125 Porc. Entr. Switch 1.80
LEVOLIER PULL SWITCHES McGill Co. Price Twi-Lite Canopy or Fixture Switch #50-51-52 \$1.00 Link Switch #59 1.00 Conduit Box & Fixture Switch #61-62 & 63 1.00 Switch Hickey 64 & 64 A for above -15	METER SERVICE SWITCHES "Square D" Accessible Main Fuses Without End Walls
PENDANT SWITCHES	Fused Meter Non-Meter Test Type Test Type Test Type Number Price Number Number Number Price Number
### With Brass Pendant Cap Price Brass Shell Pend. Cap Side Button \$.60	30 2 1
Door Switch without Box.	METER SERVICE SWITCHES
DOOR SWITCHES & OPENERS Edwards—commonly used types	"Square D" Main Fuses Sealed Without End Walls
## Door Opener Mortise Type \$ 2.75 #152 Rim Type Flush	Non-Meter Number Price Number Test Type Number Price Numbe
ENTRANCE & PANEL SWITCHES 30 Amp. 125 Volts, Plug Fused	
Description	MISCELLANEOUS Enclosed Double Branch Cutout No. 35211—30 Amp. 125 Volts\$2.35
Double Pole	Fused Plug Receptacle
" Large Size. Top .85 Bottom .85 Triple " Top 1.20	
" Large Size. Top .85 Bottom .85 Triple " Top 1.20	UNIVERSAL METER SERVICE SWITCHES "Square D" Meter Service Types
" Large Size Top 85 " Bottom 85 Triple Top 1.20 Double Pole Single Branch Top 1.30	UNIVERSAL METER SERVICE SWITCHES "Square D" Meter Service Types Single Type No. 32211 or 33211 . \$3.45 All 30 Amp. 125 Volt No. 12211-13211 . \$3.85 No. 32311 3.75 Single Phase & DC No. 12311 4.15 No. 34211 4.30 without end walls No. 14311 5.25 No. 34311 4.85

				SERVI					
Square	e D"	Wit	hout	End W	alls Li	ive &	Dead	Fuse	Type
ETER	TESTI	NG							
umber .				Neutral			ription		Price
211 211	30		1 Plug	Solid Fused			" Live	d	\$ 2.20 2.70
K-916	30		1 "	Unfused	:	-	a a	******	2.70
311 311	30 30	3 :	49	Solid			Det	d	3.45
211	30	2	1 *		Gang '		se Dea	d	2.60
211 311	30	2 3	2 *	Fused Solid			Live	d	3.10
311	30		2 "	Solid			Live		3.85
							Wall		.30
3251 3251	30		2 Cart.	Fused	Cartri	dge Fus			
351	30	3 2		Solid			Live		3.75
252 312	60	3	2 *	Fused Solid		:			8.45
312	60	3	2 *				Dead.		19.80
3253 7313	100 100	3		Fused Solid		:	Live.		15.05 15.95
313	100		2 *	Solid			Dead		27.30
ON-ME	TER '	TEST	TYPE						
K-671	30		3 Cart.	Fused		dge Typ	e Fuse	Dead	4.30
K-660 K-672	60	3		Unfused Fused	:	:		*	11.75
K-674	100	3	2 *	Unfused					19.20
K-673	100	3	3 *	Fused	•			•	19.20
	- N	neter S		only No.				******	15
	San	are D		gle Thr			al Sw	itches	
	- q a			uick Br					
			V	THE SECOND		1IV			
	250 V	olts Fu	usible	2			V. AC I	used & U	Infused
	250 Vo 2 Pole		3 1	Pole An	50V. DC	& 5001 2 Pole		used & U	le
60 #4625	2 Pole 52 \$ 8	.10 #4	3 I 16352 \$	Pole An 9.90 30	50V. DC nps.	2 Pole 0 Volt I	used	3 Po /46341	le \$ 8.55
60 #4625 60 Solid 00 #4625	2 Pole 52 \$ 8 d Neutr 53 12	.10 #4 ral #4	3 1 16352 \$ 17312 16353	Pole An 9.90 30 9.00 60 15.30 60	50V. DC nps. 50 44 500	2 Pole 2 Pole 0 Volt I 1242 \$ 0 Volt I	used 8.10	3 Po #46341 #41342 #46342	\$ 8.55 8.55 10.80
60 #4628 60 Solid 00 #4628 00 Solid	2 Pole 52 \$ 8 d Neutr 53 12 d Neutr	.10 #4 ral #4 .60 #4 ral #4	3 1 16352 \$ 17312 16353 17313	Pole An 9.90 30 9.00 60 15.30 60 14.40 10	50V. DC nps. 50 44 500 0 #4	2 Pole 2 Pole 0 Volt I 1242 \$ 0 Volt I 1243 \$	Fused 8.10 Fused 10.80	3 Po #46341 #41342 #46342 #41343	\$ 8.55 8.55 10.80 12.15
0 #4628 0 Solid 0 #4628 0 Solid 0 #4628	2 Pole 52 \$ 8 d Neutr 53 12 d Neutr 54 19	.10 #4 ral #4 ral #4 ral #4 ral #4	3 1 16352 \$ 17312 16353 17313 16354	Pole An 9.90 30 9.00 60 15.30 60 14.40 10 26.10 10 22.50 20	50V. DC nps. 50 6 50 6 50 6 50 6 60	2 & 500V 2 Pole 0 Volt I 1242 \$ 0 Volt I 1243 \$ 0 Volt I 1244 \$	used 8.10 used 10.80 used 18.90	3 Po #46341 #41342 #46342 #41343 #46343 #41344	\$ 8.55 8.55 10.80 12.15 17.10 22.50
60 #4628 60 Solid 00 #4628 00 Solid 00 #4628	2 Pole 52 \$ 8 d Neutr 53 12 d Neutr 54 19	.10 #4 ral #4 ral #4 ral #4 ral #4	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.00 60 15.30 60 14.40 10 26.10 10 22.50 20	50V. DC mps. 500 60 #41 60 500 60 #42 60 500	2 & 500V 2 Pole 0 Volt I 1242 \$ 0 Volt I 1243 \$ 0 Volt I 1244 \$ 0 Volt I	used 8.10 used 10.80 used 18.90	3 Po #46341 #41342 #46342 #41343 #46343	\$ 8.55 8.55 10.80 12.15 17.10 22.50
60	2 Pole 52 \$ 8 d Neutr 53 12 d Neutr 54 19 d Neutr	.10 #4 ral #4 ral #4 ral #4 ral #4 ral #4 ral #4	3 1 46352 \$ 47312 46353 47313 46354 47314	Pole An 9.90 30 9.00 60 15.30 60 14.40 10 26.10 10 22.50 20 SERIES	50V. DC nps. 50 6 50 6 6 6 50 6 50 6 50 6 50 6 50 6	2 & 500V 2 Pole 0 Volt I 1242 \$ 0 Volt I 1243 \$ 0 Volt I 1244 \$ 0 Volt I	Fused 8.10 Fused 10.80 Fused 18.90 Fused	3 Po #46341 #41342 #46342 #41343 #46343 #41344 #46344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40
60	2 Pole 52 \$ 8 d Neutr 53 12 d Neutr 54 19 d Neutr 55 19 d	. 10 #4 ral #4 . 60 #4 ral #4 . 80 #4 ral #4	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.00 60 15.30 60 14.40 10 26.10 10 22.50 20 20 SERIES al Quick	50V. DC nps. 50 44 50 6 50 6 44 6 50 6 50 6 7 48 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 8 500\(2 Pole of Volt I 1242 \\$ 0 Volt I 1243 \\$ 0 Volt I 1244 \\$ 0 Vol	Fused 8.10 Fused 10.80 Fused 18.90 Fused	3 Po #46341 #1342 #46342 #1343 #46343 #1344 #46344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40
60 #4628 60 Solid 00 #4628 00 Solid 00 #4628 00 Solid	2 Pole 52 \$ 8 d Neutr 53 12 d Neutr 54 19 d Neutr 54 250 Vo 2 Pole	. 10 #4 ral #4 .60 #4 ral #4 .80 #4 ral #4	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.90 60 60 60 60 60 60 60 60 60 60 60 60 60	50V. DC nps. 500 44 500 64 60 500 64 60 500 64 60 64 60 60 64 60 60 64 60 60 64 60 60 64 60 60 64 60 60 60 60 60 60 60 60 60 60 60 60 60	2 Pole 0 Volt I 1242 \$ 0 Volt I 1242 \$ 0 Volt I 1243 \$ 0 Volt I 1244 \$ 0 Volt	Fused 8.10 Fused 10.80 Fused 18.90 Fused eak, S 600 Voole	3 Po #46341 #41342 #46342 #41343 #46343 #46344 F46344 Fingle 7	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40
60 #4628 60 Solid 00 #4628 00 Solid 00 #4628 00 Solid *Squar	2 Pole 52 \$ 8. d Neutr 53 12 1 Neutr 54 19 d Neutr 250 Vo. 2 Pole 251 \$16	.10 #4 ral #4 .60 #4 ral #4 .80 #4 ral #4 , Ind olts Fu	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.00 60 15.30 60 14.40 10 22.50 20 SERIES Al Quick	50V. DC nps. 500 44 500 644 650 648 650 648 648 648 648 648 648 648 648 648 648	2 R 500V 2 Pole 0 Volt I 1242 \$ 0 Volt I 1243 \$ 0 Volt I 1244 \$ 0 Volt I 1244 \$ 0 Volt I 1245 Br 0 Volt I 2 P #81251	Fused 8.10 Fused 10.80 Fused 18.90 Fused eak, S 600 Voole \$ 9.45	3 Po 46341 41342 44343 446343 446344 46344 6ingle 7 Its Unfus 3 P 481351	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25
50 #4628 30 Solido 00 #4628 00 Solido 00 #4628 00 Solido Solido Squar mps. 330 #862 300 #862	2 Pole 52 \$ 8. d Neutri 53 12. d Neutri 54 19. d Neutri 54 19. d Neutri 52 2 Pole 251 \$10,253 20	.10 #4 ral #4 .60 #4 ral #4 .80 #4 ral #4 , Ind olts Fu 0.80 3.50 0.70	3 1 16352 \$ 16353 17313 16354 17314 Ustris usible 3 1 #80351 #80351 #86352	Pole An 9.90 30 9.90 30 15.30 60 14.40 10 22.50 20 20 SERIES Al Quick Pole \$12.60 17.00 27.00	50V. DC nps. 500 500 500 600 500 600 600 600 600 600	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 1244	Fused 8. 10 Fused 10. 80 Fused 18. 90 Fused 600 Voole \$ 9.45 11.70 19.80	3 Po #46341 #41342 #46342 #41343 #46344 #46344 #66344 #66344 #66344 #66344 #66344 #66344 #66344 #66344 #66344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60
0 #4628 0 Solid 0 #4628 0 Solid 0 #4628 0 Solid 0 F662 0 #862 0 #862 0 #862	2 Pole 52 \$ 8 8 d Neutr 54 19 d Neutr 54 19 d Neutr 52 Pole 251 \$10 252 13 253 2254 33	.10 #4 ral #4 .60 #4 ral #4 .80 #4 ral #4 .Ind olts Ft 0.80 3.50 0.70 2.40	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.90 30 15.30 60 14.40 10 22.50 20 20 SERIES Al Quick Pole \$12.60 17.00 27.00	50V. DC nps. 500 500 500 600 500 600 600 600 600 600	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 0'' & Br 0-500 & 2 P 481251 481242	Fused 8. 10 Fused 10. 80 Fused 18. 90 Fused 600 Voole \$ 9.45 11.70 19.80	3 Po 446341 441342 441343 446343 441344 446344 Single T 818351 481342	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60
0 #4628 0 Solid 0 #4628 0 Solid 0 #4628 0 Solid 0 F662 0 #862 0 #862 0 #862	2 Pole 52 \$ 8. d Neutri 53 12. d Neutri 54 19. d Neutri 54 19. d Neutri 52 2 Pole 251 \$10,253 20	.10 #4 ral #4 .60 #4 ral #4 .80 #4 ral #4 .Ind olts Ft 0.80 3.50 0.70 2.40	3 1 16352 \$ 17312 16353 17313 16354 17314 17314 180351 180351 180351 186352 186353 186354 190351	Pole An 9.90 30 9.90 30 15.30 60 14.40 10 22.50 20 20 SERIES Al Quick Pole \$12.60 17.00 27.00	50V. DC nps. 50 64 60 64 60 64 60 64 60 64 60 64 60 60 60 60 60 60 60 60 60 60 60 60	2 & 500\\ 2 Pole \\ 0 Volt \ F \\ 1243 \ \\$ \\ 0 Volt \ F \\ 1244 \ \\$ \\ 0 Volt \ F \\ 1244 \ \\$ \\ 0 Volt \ F \\ 1244 \ \\$ \\ 0 Volt \ F \\ 1244 \ \\$ \\ 0 Volt \ F \\ 1244 \ \\$ \\ 1244 \ \\ 1242 \\ 481242 \\ 481243 \\ 481244	Fused 8. 10 Fused 10. 80 Fused 18. 90 Fused 600 Voole \$ 9.45 11.70 19.80	3 Po #46341 #41342 #46342 #41343 #46344 #46344 #66344 Filst Unfus 3 P #81342 #81343	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60
30 #4628 30 Solido 00 #4628 00 Solido 00 #4628 00 Solido Squar mps. 30 #863 00 #863 00 #863	2 Pole 52 \$ 8 8 d Neutri 53 12 1 Neutri 54 19 d Neutri 54 19 d Neutri 54 250 Vol 2 Pole 251 \$16 252 13 2253 2253 2254 33 250 Vol	.10 #4 ral #4 .80 #4 .80 #4 ral #4 .90 #4 ral #4	3 1 46352 \$17312 46353 77313 46354 477314 \$2 48351 486352 486352 486353 486354 4973	Pole An 9.90 30 99.00 60 15.30 60 14.40 10 22.50 20 20 SERIES al Quick 20 27.00 36.00	50V. DC nps. 50 64 60 64 60 60 64 60 60 60 60 60 60 60 60 60 60 60 60 60	2 & 500\\ 2 Pole \\ 0 Volt F \\ 1242 \\$ \\ 0 Volt F \\ 1244 \\$ \\ 10 Volt F \\ 1244 \\$ \\ 10 Volt F \\ 1244 \\$ \\ 124	Fused 8.10 Fused 10.80 Fused 18.90 Fused 600 Voole \$ 9.45 11.70 19.80 25.20	3 Po 446341 441342 446342 441343 441344 446344 46344 6ingle 7 8ts Unfus 3 P 481351 481342 481343 481344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60
80 #4628 80 Solido 90 #4622 90 Solido 90 #4622 90 Solido Solido Solido Solido Solido Solido Solido Solido Solido Solido Solido Solido Solido Solido 1862 90 #862 90 #862 90 #862 90 #862 90 \$662 90 \$6	2 Pole 52 \$ 8 d Neutris 12 1 Neutris 12 1 Neutris 12 1 Neutris 19 1 Ne	. 10 f44 ral f4 f60 f4 ral f4 f60 f4 ral f4 f60 f4 ral f4 f60 f6	3 1 16352 \$ 17312 \$ 16353 7313 16354 17314 17	Pole An 9.90 30 99.00 60 15.30 60 14.40 10 22.50 20 20 20 SERIES 11 Quick \$12.60 17.00 36.00 SERIES '', Indus	50V. DC nps. 500 640 600 6440 600 6480 600 6480 600 6480 600 600 600 600 600 600 600 600 600 6	2 & 500\\ 2 Pole \\ 0 Volt F \\ 1242 \\$ \\ 0 Volt F \\ 1244 \\$ \\ 10 Volt F \\ 1242 \\$ \\ 181242 \\ 181242 \\ 181242 \\ 181244 \\ 18124 \\ 181244 \\ 18124	Fused 8.10 Fused 10.80 Fused 18.90 Fused 18.90 Fused 11.70 Fused F	3 Po 446341 441342 446342 441343 446343 441344 446344 Single T lts Unfus 3 P 481342 481343 481344	S 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ble cole \$11.25 14.40 30.60
60 #462:60 Solido of #462:00 Solido of #462:00 Solido of #462:00 Solido of #462:00 Solido of #86:00 ###################################	2 Pole 5 8 8 d Neutr 53 12 i Neutr 54 19 d Neutr 55 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.10 #4 ral #4 .60 #4 ral #4 .80 #4 ral #4 , Ind , Ind 0.80 3 50 0.70 2.40 tts only	3 1 16352 \$17312 16353 177313 16354 177314 17314 17314 Sustrise 186354 186352 186353 186354 190.	Pole An 9.90 30 99.00 60 15.30 60 15.30 60 1222.50 20 20 20 20 20 20 20 20 20 20 20 20 20	50V. DC nps. 50 64 60 50 64 60 50 64 60 65 60 60 60 60 60 100 60 100 60 100 60 100 60 100 60 100 60 100 60 100 60 100 60 100 60 60 100 60 60 100 60 60 100 60 60 100 60 60 100 60 60 100 60 60 60 60 60 60 60 60 60 60 60 60 6	2 Folo 2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 181242 \$ 1	Fused 8.10 Fused 10.80 Fused 18.90 Fused 18.90 Fused 19.45 Fused 11.70 Fused 19.80 Fused 1	3 Po 446341 441342 446342 441343 441343 441344 446344 Single T lts Unfus 3 P 481341 481342 481343 481344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60 30.60
Squar Sq	2 Pole 2 Pole 2 Pole 3	.10 #4 ral #4 ra	3 1 16352 \$ 17312 16353 17313 16354 17314 3 1 180351 180351 180351 180351 180354 180354 180354 2 Pc 3 2 Pc	Pole An 9.90 30 99.00 60 15.30 60 14.40 10 22.50 20 20 20 20 27.00 36.00 17.00 36.00 SERIES 11 Quick pole Not Fuel and the first pole Not Fuel and the first pole Fused.	50V. DC nps. 50 64 60 60 64 60 60 60 60 60 60 60 60 60 60 60 60 60	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 181244 \$ 181242 \$ 181	eak, S 600 Voole 3 9.45 11.70 19.80 25.20	3 Po 446341 441342 446342 441343 441343 441344 446344 Single T Its Unfus 3 P #81351 #81342 #81344	S 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ble cole \$11.25 14.40 30.60
0 #462:0 Solido 0 #462:0 Solido 0 #462:0 Solido 0 \$60:	2 Pole 5	.10 #4 ral #4 ra	3 1 46352 \$17312 16353 17313 16354 17314 1	Pole An 9.90 30 99.00 60 15.30 60 15.30 60 122.50 20 20 20 20 20 20 20 20 20 20 20 20 20	50V. DC nps. 500 440 500 644 60 500 644 60 500 60 60 100 200 60 100 200 60 100 200 60 100 200 60 100 200	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 141242 \$ 181242 \$	Fused 8.10 Fused 10.80 Fused 18.90 Fused 18.90 Fused 19.90 Fused 19.45 Fused 19.80 Fused 1	3 Po 446341 441342 446343 441343 440343 441344 446344 Single T lts Unfus 3 P 813451 481342 481343 481344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 21.60 30.60
0 #462:0 Solid 0 #462:0 Solid 0 #462:0 Solid 0 #462:0 Solid 0 #86:0 0 #86:0 1251 N 1251 N 1251 N 1251 N	2 Pole 5	.10 #4 ral #4 ra	3 1 46352 \$17312 16353 17313 16354 17314 1	Pole An 9.90 30 99.00 60 15.30 60 14.40 10 22.50 20 20 20 SERIES at Quick 27.00 36.00 SERIES ', Indus	50V. DC nps. 500 440 500 644 60 500 644 60 500 60 60 100 200 60 100 200 60 100 200 60 100 200 60 100 200	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 141242 \$ 181242 \$	Fused 8.10 Fused 10.80 Fused 18.90 Fused 18.90 Fused 19.90 Fused 19.45 Fused 19.80 Fused 1	3 Po 446341 441342 446343 441343 440343 441344 446344 Single T lts Unfus 3 P 813451 481342 481343 481344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 30.60 \$2.65 4.00 7.65
Squar Squar mps. 30 #8625 00 \$6160 Squar mps. 30 #862 00 #863 00 #863 00 #863 00 #863 00 #863 00 #863	2 Pole 2 Pole 2 Pole 3	.10 #4 ral #4 .60 #4 ral #4 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	3 1 166352 \$ 17312 166353 17313 166354 17314 173	Pole An 9.90 30 9.90 30 9.90 30 9.90 30 615.30 60 615.30 60 614.40 10 622.50 20 20 20 8ERIES 61 Quick 62 610 10 62 610 17.00 27.00 36.00 8ERIES 7, Indus 610 Fused 610 Fused 610 610 Fused 610 Fuse	50V. DC nps. 50 44 50 64 60 50 64 60 60 60 60 60 60 60 60 6	2 8 500\(2 \) Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 12	Fused 8.10 Fused 10.80 Fused 18.90 Fused 18.90 Fused 11.70 19.80 25.20 Fused 11.70 Fused 1	3 Po 446341 441342 446343 441343 441344 446344 Single T 818351 481342 481343 481344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90
50 #4622 50 Solido 50 F4622 50 Solido 50 F4622 50 Solido 50 F862 50	2 Pole 52 \$ 8 8 12 1 Neutri 1	.10 f44 ral f46 ral f4	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.90 3	50V. DC nps. 50 64 50 64 60 50 64 60 65 60 64 60 60 60 60 60 60 60 60 60 60 60 60 60	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 181242 \$ 181242 \$ 181242 \$ 181242 \$ 181244 \$ 10 Volt F 12 Volt F	eak, S 600 Voole 3 9.45 11.70 19.80 25.20	3 Po 446341 441342 446343 441343 441343 441344 446344 Single T 8 P 8 81351 481342 481343 481344 W	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 21.60 30.60
60 #4628 60 Solido 00 #4622 00 Solido 00 Solido *Squar *Squar *Squar *Squar 00 #862 00 #862 00 #862 00 #862 00 #862 00 \$862 00 \$862 00 \$862 00 \$91251 N 90251 Q 90351	2 Pole 2	10 f44 ral f4 ra	3 1 166352 \$17312 166353 17313 166354 1731	Pole 9.90 30 99.00 60 15.30 60 15.30 60 122.50 20 20 20 20 20 20 20 20 20 20 20 20 20	50V. DC nps. 50 44 50 64 60 50 60 64 60 60 60 100 250 60 100 200 60 100 50 60 100 50 60 100 50 60 100 50 60 100 50 60 100 60 6	2 8 500\(2 \) Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 12	eak, S 600 Voole \$1.70 and 19.80 25.20 Thro	3 Po 446341 441342 446343 441343 441344 446344 Single T 818351 481342 481343 481344	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90
60 #4622 60 \$600 60 \$600 60 \$600 60 \$600 60 \$600 60 \$600 \$60 \$600 \$60 \$600 \$60 \$600 \$60 \$600 \$60 \$600 \$60 \$600 \$6	2 Pole 52 \$ 8 8 1 2 1 Neutri	.10 #4 ral #4 .60 #4 ral #4 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	3 1 16352 \$17312 16353 17314 16354 17314 16354 17314 16354 17314 16354 17314 16352 186352 186353 186354 17314 163 163 163 163 163 163 163 163 163 163	Pole An 9.90 30 9.90 3	50V. DC 1 50 1 44 1 50 1 64 1 60 1 50 1 44 1 60 1 50 1 44 1 60 1 60 1 8000 1 Make 250 Amps. x30 60 1 00 200 1 44 2 50 Amps. x30 60 TART ake & mps. 30 60	2 Pole 0 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 181	eak, S 600 Voole \$11.70 19.80 25.20 Thro	3 Po 446341 441342 446343 441343 441343 441344 446344 Single T Its Unfus 3 P #81351 #81342 #81343 #81344 W	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90 OW 4 Pole \$22.50
60 #462:60 Solido of #462:00 Solido of #462:00 Solido of #462:00 Solido of #462:00 Solido of #86:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00 #80:00	2 Pole 52 \$ 8 6 i Neutri 53 12 1 Neutri 53 12 1 Neutri 53 12 1 Neutri 54 19 1 Neutri 55 10 Neutri 5	.10 f44 ral f4	3 1 16352 \$ 17312 \$ 16353 17313 16354 17314 \$ 16354 17314 \$ 16354 17314 \$ 16354 17314 \$ 16352 186352 186354 186	Pole 9.90 30 99.00 60 15.30 60 15.30 60 15.30 60 15.30 60 17.00 222.50 20 20 20 20 20 20 20 20 20 20 20 20 20	50V. DC nps. 500 440 500 440 500 48000 48000 48000 600 100 200 480	2 8 500 2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1242 \$ 1250 V. 2 P 1250	eak, S 600 Voole \$ 9.45 11.70 25.20 Thro	3 Po 446341 441342 446343 441343 440343 441344 446344 Single T lts Unfus 3 P 481341 481343 481343 481344 W	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90 OW 4 Pole \$22.50
60 #462:60 Solido of #462:00 #86:00	2 Pole 2	.10 f44 ral f44 .60 f44 ral f44 .90 f44 ral f44 .90 f44 ral f44 ., Ind olts Ft ral f45	3 1 166352 \$ 17312 166353 17313 166354 17314 173	Pole 9.90 30 99.00 60 15.30 60 15.30 60 15.30 60 122.50 20 20 20 20 20 20 20 20 20 20 20 20 20	50V. DC nps. 50 64 50 64 60 650 64 60 60 60 60 60 60 60 60 60 60 60 60 60	2 Pole 0 Volt F 1242 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 1242 \$ 181	eak, S 600 Voole 11.70 19.80 25.20 Thro	3 Po 446341 441342 446343 441343 441343 441344 446344 Single T Its Unfus 3 P #81351 #81342 #81343 #81344 W	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90 OW 4 Pole \$22.50 31.50
60 #462:60 Solido of #62:00 #86:00 #	2 Pole 52 \$ 8 6 i Neutri 53 12 1 Neutri 53 12 1 Neutri 53 12 1 Neutri 54 19 1 Neutri 54 19 1 Neutri 54 19 1 Neutri 55 10 Neutri 65 10 N	10 f44 ral f4	3 1 166352 \$ 17312 166353 17313 166354 17314 173	Pole 9.90 30 99.00 60 15.30 60 15.30 60 15.30 60 122.50 20 20 20 20 20 20 20 20 20 20 20 20 20	50V. DC nps. 500 644 60 500 644 60 500 648 60 100 60 100 60 100 60 60 60 100 60 60 60 60 100 60	2 8 500\(2 \) Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1242 \$ 181	eak, S 600 Voole \$11.70 19.80 25.20 Thro	3 Po 46341 441342 446343 441343 441343 446344 3 Poles 6 Single T 8 State Units 8 Poles 8 State Units 8 State Units 9 State Units	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90 OW 4 Pole \$22.50 31.50 31.50 31.50
6251-351 6251-351 6251-351 6251-694 6342-6	2 Pole 52 \$ 8 \$ 6 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1	10 f44 ral f46	3 1 16352 \$ 17312 16353 17313 16354 17314	Pole An 9.90 30 9.90 3	50V. DC nps. 500 44 500 44 0 500 48 0 44 0 500 48 0 50 0 50 48 0 50 60 100 200 *** *** *** ** ** ** **	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt	eak, S 600 Voole 11.70 19.80 25.20 Thro	3 Po 446341 441342 446342 441343 441343 441344 446344 Single T Its Unfus 3 P #81351 #81342 #81343 #81344 W W Ps) 2 2 50 2 2 50 2 2 50 2 2 50 1 4 40 2 3 70 1 4 40 3 3 6 3 6 3 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible cole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90 OW 4 Pole \$22.50 31.50 31.50 29.70 29.70
50 #4622 50 Solido 50 #4622 50 Solido 50 \$4622 50 Solido 50 \$860 50 #860 60 #860 60 #860 60 #860 60 \$860 60	2 Pole 52 \$ 8 6 in Neutri 53 12 1 in Neutri 53 12 1 in Neutri 53 12 1 in Neutri 54 19 1 in Neutri 54 10 in Neutri 54 10 in Neutri 64 1 in Neutri	.10 f44 ral f4	3 1 16352 \$17312 16353 17313 16354 17314 1	Pole An 9.90 30 9.90 3	50V. DC nps. 500 64 500 64 60 500 64 60 60 60 60 60 60 60 60 60 60 60 60 60	2 Pole 0 Volt F 1242 \$ 0 Volt F 1243 \$ 0 Volt F 1243 \$ 0 Volt F 1244 \$ 0 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1244 \$ 10 Volt F 1242 \$ 1243 \$ 1242	Fused 8.10 Fused 10.80 Fused 110.80 Fused 18.90 Fused	3 Po 446341 441342 446342 441343 441343 441344 446344 Single T Its Unfus 3 P #81351 #81342 #81343 #81344 W W Ps) 2 2 50 2 2 50 2 2 50 2 2 50 1 4 40 2 3 70 1 4 40 3 3 6 3 6 3 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	\$ 8.55 8.55 10.80 12.15 17.10 22.50 32.40 Chrow ible ole \$11.25 14.40 21.60 30.60 \$2.65 4.00 7.65 9.90 OW 4 Pole \$22.50 31.50 31.50 29.70 29.70

COMPENSATOR SWITCHES
Square D

 500 Volts
 A. C.—3
 Pole

 Numbers
 Amps.
 Pricc

 78341
 30
 \$18.20

 78342
 60
 19.10

 78343
 100
 29.75

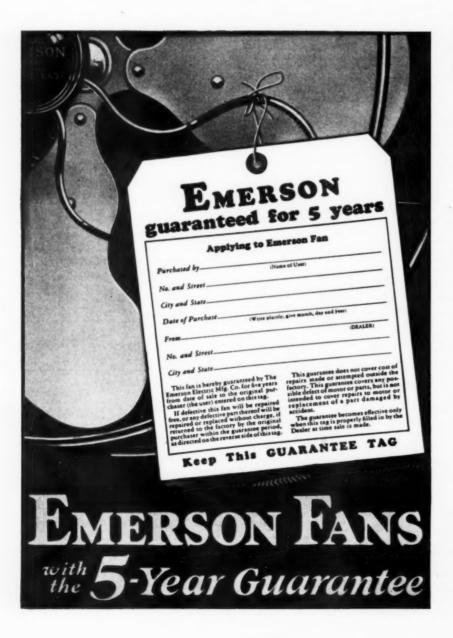
 78344
 200
 50.50

250 Volts—3 Pole
Numbers Amps. Price
77351-78351 30 \$17.30
77352-78352 60 17.30
77353-78353 100 28.00
77354-78354 200 47.50

March, 1929

Trumbull-Vanderpoel Single Throw Industrial Type	
250 Volts DC or AC Fusible 500-800 Volts AC Fusible	
30 A 4321 \$ 3.00	8 .55 10 .80 17 .10
Amps 3 Pole 4 Pole Amps 2 Pole 3 Pole	74.70 sed ole
30 A #04332 \$ 6.70 #04342 \$ 8.10 30 A #1325 7.65 41335 60 A 04632 9.00 04642 11.25 60 A 41325 7.65 41335 100 A 04132 14.40 04142 20.25 100 A 41122 10.80 41132 200 A 04232 22.50 04242 31.50 200 A 41222 18.90 41232 400 A 04432 58.00 04442 74.50 400 A 41422 36.50 41432	8 4 .05 8 .10 8 .55 12 .15 22 .50 49 .80
ENTRANCE SWITCHES Trumbull-Vanderpoel	
Numbers Amps. Volts Description 2 Pole 3 77 Light Duty 30 125 One Plug Fuse One Blade \$ 1.65 73021 Light Duty 30 125 * 1.75	\$ 2.90 2.30 4.35 3.25 4.15 7.45 11.90
METER SERVICE SWITCHES Trumbuli-Vanderpoel Live Fuse Type, Without End	Walle
Numbers Ampa. Volts Description 2 Pole 50321-52331 30 125 For Plug Fuses	
59321-59331 30 125 For Plug Fuses	3.45 3.95 16.00
59122-59132 100 250 23.85 "SAFE-LOCK" ACCESSIBLE METER SERVICE	25.60
Trumbull-Vanderpoel Test Type Without End Wal	\$ 4.45
55321-55331 30 125 For Plug Fuses	4.85 17.70 27.35 4.00
(Non-Test Type) 56321-56331 30 125 For Plug Fuses	4.60 16.90 25.65
"SAFE-LOCK" BRANCH CIRCUIT TYPE Trumbull-Vanderpoel, 30 Amp. Without End	
Testing Not Testing Testing Not Te 7551-123 \$5.95 4561-123 \$5.65 4851-123 \$6.10 4861-123	\$5.90
Type A/ Testing Not Testing Testing Not Te \$551-123 \$5.95 \$561-123 \$5.65 \$851-123 \$6.10 \$861-123 \$5.95 \$62-123 6.35 \$620 \$853-33 6.75 \$83-333 \$6.75 \$852-123 6.85 \$852-123 6.90 \$862-123 \$555-333 7.45 \$865-333 6.95 \$855-333 7.45 \$865-333	6.40 6.60 7.15
UNIVERSAL METER SERVICE SWITCHES	6.40
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description	6.40 6.60 7.15 Price \$3.90 3.75 4.30
## Company of the Com	6.40 6.60 7.15 Price \$3.90 3.75 4.30
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 973-333 972-123 975-333 & 979-333 No End Wall.	6.40 6.60 7.15 Price \$3.90 3.75 4.30
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 973-333 972-123 975-333 & 979-333 No End Wall. TROUGHS Trumbull-Vanderpoel 7' 9'	Price\$3.90 3.75 4.30
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 973-333 972-123 975-333 & 979-333 No End Wall. TROUGHS Trumbull-Vanderpoel 2-3 & 4' 45c SHUTTERS END WALLS Trumbull-Vanderpoel	Price\$3.90 3.75 4.30
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 973-333 972-123 Without End Wall. TROUGHS Trumbull-Vanderpoel 975-333 979-333 No End Wall. See Catalog for Full Description 975-333 972-123 975-333 979-333	0 & 100 Amp. \$3.80 4 & 85
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description See Catalog for Full Descri	6.60 6.60 7.15 Price \$3.90 3.75 4.30 4.85 10' 85c
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 971-123 Without End Wall See Catalog for Full Description 973-333 972-123 "	6.60 6.60 7.15 Price .\$3.90 .3.75 .4.30 .4.85 10° 85c 0 & 100 Amp. .25 .80
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 973-333 972-123 Without End Wall See Catalog for Full Description 973-333 972-123 See Catalog for Full Description 975-333 975-333 979-333 No End Wall See Catalog for Full Description 975-333 979-333 No End Wall See Catalog for Full Description 975-333 979-333 No End Wall See Catalog for Full Description 975-333 979-333 No End Wall See Catalog for Full Description 975-333 979-333 No End Wall See Catalog for Full Description 975-333 See Catalog for Full Description 300 Amp. See Catalog for Full Description	0 & 100 Amp. \$3.90 Amp. \$3.80 Amp. \$4.85 4 Pole \$23.50 18.40 12.80 17.06 16.50 23.40
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 973-333 973-123 Without End Wall 973-333 975-333 8 979-333 No End Wall 975-333 8 979-333 No End Wall 975-333 8 979-333 No End Wall 975-333 975-333 975-333 975-333 975-333 975-333 975-333 975-333 975-333 975-333 975-333 979-333 975-333 979-3	6.60 6.60 7.15 Price .\$3.90 .3.75 .4.30 .4.85 10° 85c 0 & 100 Amp. \$.80 .25 .80 12.80 17.05 18.40 12.80 17.05 16.50 16.50
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 971-123 Without End Wall See Catalog for Full Description 973-333 972-123 #	0 & 100 Amp. 3.80 10° 85c 10° 85c 4 85c 4 Pole \$23.50 18.40 17.05 16.50 23.40 .26.60
UNIVERSAL METER SERVICE SWITCHES Trumbull-Vanderpoel See Catalog for Full Description 971-123 Without End Wall See Catalog for Full Description 973-333 972-123 "	0 & 100 Ampo 3.3 90 3.75 4.30 0 & 100 Ampo 2.25 .90 4 Pole \$23.50 12.80 17.06 16.50 23.40 18.86

Your Customers Can Color Customers Can



SEEING is believing in selling fans and every other kind of merchandise. With Emerson Fans in your stock your customers see sturdiness, reliability, high quality at a glance.

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Put the 5-year guarantee to work in your store this year. Let your customers see that it pays them to patronize your store—offering fans with the strongest and most liberal guarantee in the whole fan field.

THE EMERSON ELECTRIC MFG. CO.
2018 Washington Ave., St. Louis, Mo.
806 W. Washington Blvd., Chicago, Ill.
50 Church Street. New York City

"Diamond H" Remote Control Switches are Economical!



Hyde Park High School, Boston, Mass.

In public buildings such as this Hyde Park High School in Boston, Mass., the use of "Diamond H" Remote Control Switches is not only economical from the wiring standpoint, but it also safeguards the lighting and allows easier control from distant points.

For example, all of the lighting circuits of the machine shop as shown on the panel at the left are controlled by one Type "F" "Diamond H" R. C Switch.

The main auditorium lighting circuits are controlled by a Type "G" double throw combination, in connec-tion with an emergency circuit. This means that the Type "G" automatically throws from main circuit to the emergency circuit in case of the failure of one, and back again automatically when main circuit resumes.

Lighting is assured regardless of external conditions. By using "Diamond H" R. C. Switches, it is not necessary to carry main conductors to switching points. This cuts costs in wiring.

Bulletin No. 10 will tell you what they are and how and where to use them. Sent free.

Type "F" Controls Lighting Circuits in Machine Shop.

Archs.—McLaughlin & Burr, Boston

Elec. Cont.—M. B. FOSTER ELEC. Co., BOSTON. The Hart Manufacturing Co. HARTFORD, CONN.

New York

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WITCHES



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LIMI

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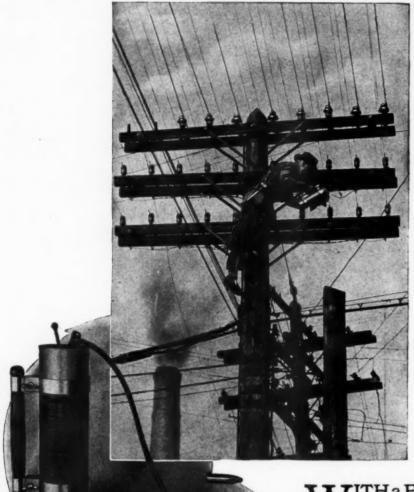
SHRINE HOSPITAL in Minneapolis One of the many recent buildings in which CENTRAL CONDUIT

IN a modern hospital such as this, where safety is of paramount importance, it was but logical that "Central" Conduit should be chosen as a protective covering to the entire electrical wiring system—a conduit so durable that it will actually outlast the life of the building itself.

Here as well as in hundreds of other modern institutions. "Central Conduit" is used and preferred by leading contractors and architects. Every length bears the stamp of approval of the Underwriters' Laboratories.

Central Tube Company

First National Bank Bldg. Pittsburgh



Prest-O:Lite is the QUICKEST way

with a Prest-O-Lite torch outfit linemen can do a faster, better splicing or brazing job every time. It's convenient and quick—nothing to get ready. Just turn on the gas, light the torch and the job is under way.

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Prest-O-Lite Gas is available everywhere. Any one of 15,000 Prest-O-Lite Exchange Stations can supply you quickly with a full tank.

Prest-O-Lite GAS

THE PREST-O-LITE COMPANY, Inc.

Unit of Union Carbide and Carbon Corporation

NEW YORK Carbide and Carbon Building CHICAGO Railway Exchange Building

SAN FRANCISCO Adam Grant Building



STEELTUBES [E.M.T.]* has the same inside diameter as heavy conduit. Made in three sizes, [½", ¾" and 1"] with the wall-thickness shown above. One coupling furnished with each ten-foot length.



STEELTUBES Advantages

- 1-Saves threadcutting
- 2-Bends easily
- 3-Light-handles easily
- 4—Takes any fitting
- 5—Speedsup the job
- 6-Resists corrosion
- 7—Costs less
- 8-Standard price
- 9-Carries Underwriters' Label
- 10-Local stocks always available.

Only THREE pounds to a TEN-FOOT length

THE most remarkable thing about STEELTUBES [E.M.T.]* is that it can be so light, and yet so strong.

There's less than half as much weight to lift, and therefore less slowing down of installation work as late afternoon comes on. Lightness, too, takes most of the curse off the ceiling part of the job.

No threads to cut. STEELTUBES Adapters fit any kind of threaded or threadless fittings.

Our sample package will give you an idea of the lightness and strength of STEELTUBES, and the convenience of the STEELTUBES Adapter. It's free. Ask for it.

Electrical Division

STEEL AND TUBES, INC.

Cleveland, Ohio

(A subsidiary of Republic Iron and Steel Co.)

*STEELTUBES Electrical Metallic Tubing [thin-wall conduit] is threadless, strong, light and easy to handle. Saves time and money on the job.

MASON	SAFETY	SWITCHES
Tene	nhull-Var	ndormost

Series		Volts	2 Pole	3 Pole	4 Pole
8322-32-42-30	Amp250	Volt Type	\$ 9.10	\$10.35	\$15.25
8325-35-45-30	*600		17.55	19.90	23.40
8622-32-42-60	"250	* *	12.35	14.05	19.90
8625-35-4560	"600	*. *	18.20	20.55	24.05

SMALL ENTRANCE SWITCHES Trumbull Electric Closed or Open Ends

Numbers	Amps.	Volts			3 Pole
5790 Midget	30	125	For 1 Plug Fuse	\$1.80	
5791-2-3-4 & 5893 & A		125	" Plug Fuses		\$3.45
13640-13641		250	No Fuse-Slate Base.		4.15
13642-43 & 13743 & A		250	For Enclosed Fuses.	2.70	4.30
13221-13321	30	250		3.40	5.15

MAIN ENTRANCE SWITCHES

Trumbull Electric Non Meter Test Solid End Wall

16361	to	16368 16378	30	125-250	For	Plug Fue	Frac	\$2.75	\$3.45
16381		16388	60	250		Enclosed.	a ruse	8.50	9.00
16391	-	16398	100	250				15.10	16.00

METER SERVICE SWITCHES

Trumbull Electric For Meters Open End

16300 to 16309 30) 12	5-250	For	Plug Fu	18cs	2.75	\$ 3.45
16315 4 16324 30			4	Enclose	d Fuses.	3.05	3.75
16330 * 16338 60						8.50	9.00
16341 * 16348 100	•			*		15.10	16.00

ACCESSIBLE FUSE METER SWITCHES

Trumbull Electric With Test Blades Without End Walls 18111 30 125 For 1 Plug Fuse. ...\$ 3.65 18211-18311 30 125 Plug Fuses. ... 4.00 18121 30 125-250 1 Enclosed Fuse 4.20 18221-18321 30 4 Enclosed Fuse 4.85 18122-222-322 60 4 2 4 2 6.80 18123-223-323 100 4 4 2 25.60

Without End	Wa	lls s	and	Wit	hout T	est B	lades	
19111	30 30		25 -250	-	1 Plug I Plug Fu	ses	3.65	\$4.00
19121	30	*	66		1 Enclos		3.85	
19221-19321	30	-	-	-	Enclose	d Fuses.	4.55	4.55
19122-222-322	60	-	4	-			16.00	16.80
19123-223-323	100		*	-		-	24.75	25.65

SEALED FUSE METER SWITCHES

Trumbull Electric With Test Blades Without End Walls

15827	30	13	25	For	1 Plug I	use 1	2.25	
28111-28211-28311	30	1:	25		Plug Fu	scs	3.25	\$ 3.45
28121	30	1:	25		1 Enclos			
28221-28321	30	125-	-250		Enclose	d Fuses.	3.75	4.00
28122-28222-28322	60	4	46	-	4	. "	15.10	16.00
28123-223-323	100			-			23.90	25.65

UNIVERSAL METER SERVICE SWITCHES

Trumbull Electric

#971-123	For	Details	See	Trumbull	Catalog	 			 		. 1	\$3.45	Less	End	Wall	
972-123		4	-	*	*							4.30	-	-	-	
973-333		-	-	46	-					Ī		3.75	-	66	*	
975-333	*		46	-	44		•					4 85				
979-333						 			 	0		4.85	-			

END WALLS, SHUTTERS, TROUGHS

One Piece End Wall Shutter for	for 30	Amp. Switch,	\$.30	For 60	& 100 A.	Switches, \$.80	,
Trought—2-3 & 4"	. \$. 37	5"\$.41	6"	.\$.44	7"\$.5	2 8"55	6
Distribution Cutout	Block-	#5850-Less	Fuses			1.10	ì

TYPE "A" SWITCHES

Trumbull Electric Single Throw, Quick Make & Break

	250 Volti	Fusible			250 Volts		
Amps. 2	Pole	3 1	Pole	2 F	ole		ole
30 #7222	1 \$10.80	#72321	\$12.60	#36221	\$ 9.45	#36321	\$11.25
60 7222	2 13.50	72322	17.10				
100 7222	3 20.70	72323	27.00				
200 7222	4 32.40	72324	36.00				
	500 Volts	Fusible		250	-500 Volt	Unfuse	d
30 #7225	1 \$14.50	#72351	\$18.00	#36251	\$10 70	#36351	\$13.95
60 7225	2 16.40	72352	18.90	36252	10.70	36352	14.40
100 7225	3 25.20	72353	28.80	36253	19.80	36353	21.60
200 7225		72354	45.00	36254	25.25	36354	30.60

"R.M." & TYPE "A" SMALL MOTOR STARTING SWITCHES

Trumbull Electric

30 A	mp.			60 A	mp.	
	3 I	Pole	2 1	Pole	3	Pole
\$ 9.10	94321	\$10.35	94222	\$16.20	94322	\$18.90
14.40	94361	16.20	94262	20.70	94362	23.40
10.80	93361	11.70				
10.80	83321	13.05				
14.85	83361	18.00				
	Pole \$ 9.10 14.40 10.80 10.80	Pole 3 F \$ 9.10 94321 14.40 94361 10.80 93361 10.80 83321	\$ 9.10 94321 \$10.35 14.40 94361 16.20 10.80 93361 11.70 10.80 83321 13.05	Pole 3 Pole 2 1 \$ 9.10 94321 \$10.35 94222 14.40 94361 16.20 94262 10.80 93361 11.70 10.80 83321 13.05	Pole 3 Pole 2 Pole 8 9.10 94321 \$10.35 94222 \$16.20 14.40 94361 16.20 94262 20.70 10.80 93361 11.70 10.80 83321 13.05	Pole 3 Pole 2 Pole 3: \$ 9.10 94321 \$10.35 94222 \$16.20 9432 14.40 94361 16.20 94262 20.70 94362 10.80 93361 11.70 10.80 83321 13.05

TYPE"C" SWITCHES

Trumbull Electric Single Throw, Quick Break Only

250 Volts Unfused
2 Pole 3 Pole
#20221 \$ 4.95 #20321 \$ 6.30
250-500 Volts Unfused
#20251 \$ 7.65 #20351 \$ 8.10
20252 8.10 20352 8.55
20253 10.80 20353 12.15
20254 18.90 20354 22.50

R. M. SAFETY SWITCHES

Trumbull Electric, All 30 Amp.

		mount meeting in	- no remain		
Volts 250-600 AC	Fused Not Fused	Numbers 46261-46361-46461	2 Pole \$ 5.40	3 Pole \$ 7.20	4 Pole 3 9.90
250 Volts	Fusible	92221-92321-92421	6.30	8.10	10.80
600 " AC	•	92261-92361	13.05	13.95	

TYPE "A" MOTOR STARTING SWITCHES

Trumbull Electric

#2221.....\$2.25

	Phase	Numbers	Cycle	110 Volt	220 Volt	440 Volt	550 Volt
Si	ngle	95211-21-51-61	60	\$22.25	\$22.25	\$25.20	\$26.30
		85211-21-51-61	25	22.25	22.80	30.45	31.60
3	Phase	96311-21-51-61	60	25.20	25.20	28.70	30.40
		86311-21-51-61	25	25.20	26.30	35.10	36.00
2	" 3 Wir	e98311-21-51-61	60	26.30	26.30	31.60	34.30
-		88311-21-51-61	25	26.30	28.30	37.00	38.70
	. 4 .	99411-21-51-61	60	40.95	40.95	45.40	45.70
-		89411-21-51-61	25	40.95	42.70	48.00	50.85

TUMBLER SWITCHES

Trumbull Electric #2221E.....\$3.85 #3221.....\$1.60 #2361:\$6.00

MIDGET & TYPE "OO"

Westinghouse Residence Type

		2 P	ole	3 Po	le
M	idget 62612-62613		\$1.65		
00	For Plug Fuses 125-250 V2 Blades Solid Neutral	.#60969	1.85	#82328	\$2.75
	*2 & 3 * & * *			60961-2	3.00
1:	* Cartridge Fuse Solid Neutral	. 60989	2.50	62351	3.20
	0.00 17 1- 4 4		****	62363	4.35
1 :	Solid Neutral		2.55	62364	4.35
	Non-Fusible 250 Volts	. 60990	2.55	62365	4.00

METER SERVICE SWITCHES

Westinghouse Type "WK-54" Without End Walls

			Dead Fo	use Typ	e	Live Fuse Type				
Amp	s. Fused	2 1	Pole	3 1	Pole	2 1	Pole	3.	Pole	
-	For	No.	Price	No.	Price	No.	Price	No.	Price	
30	Plug	61140	\$ 2.20			60224	\$ 2.70	59442	\$ 3.45	
30	*	61143	3.25	61142	\$3.45	59441	2.70	60225	3.45	
30	Enclosed	61639	3.50			54371	3.05	60227	3.70	
30		61145	3.75	61144	4.00			59448	3.70	
60		61150	15.05	61151	16.00	59461	8.90	60229	8.90	
100		61152	23.70	61153	25.50	59463	15.00	60232	16.00	

POLYPHASE METER SWITCHES

Westinghouse "WK-54"

			2	Pole	Seal	ed Ma	ain Fuse	Mete	r Testi	ng				
30	Amp.	No.	60997	With	End	Wall	\$11.50	No.	60266	Less	End	Wall	\$11.00	
60	66	66	60998		46	66	17.50		60267	46	66	66	16.50	
100	46	68	60999	66	68	44	27.50	65	60268	48	66	66	26.00	

ACCESSIBLE FUSE TYPE

Westinghouse "WK-65" Without End Walls

		V	Vith Test				thout 1		
Amp	s. Fused	2 1	Pole	3 F	ole	2 1	Pole	3 F	ole
	For	No.	Price	No.	Price	No.	Price	No.	Price
30	Plug	65000	\$ 3.65			65010	\$ 3.35		
30	*	65001	3.95	65002	\$4.50	65011	3.65	65012	\$3.95
30	Enclosed	65055				65063	3.85		
30		65003	4.80	65004	4.80	65013	4.50	65014	4.50
60	•	65005	16.70	65006	17.70	65015	15.85	65016	16.70
100	•	65007	25.50	65008	27.20	65017	24.60	65018	25.50

UNIVERSAL

Westinghouse "WK-57" Meter Service Switches Without

	End wa	IIIS
All 30 Amp.	For Full Details See	#57924
125 Volt	Westinghouse	57925 4.60
Standardized	Switch Catalog #282	57926 3.75
		57928 5.15
		57931 5 15

METER TRIMS-END WALLS-TROUGHS Westinghouse

One Piece Meter Trims.			\$0.75
Blank End Wall or Shutter Type End Wall			.75
Shutter Type Meter Trim or Adaptor Trim			.25

Replacement Plate or Adapting Plate. Wiring Trough—2-3 & 4' long. \$0.40 5'\$.45 6'\$.50 Fuse Receptacle #R57252.	7"	\$.55 Less Fu	8" \$. 60 ses, \$1 . 25

ELECTRICAL CONTRACTING

QUICK MAKE & BREAK Westinghouse Industrial "WK-60" or "66" 250 Volta Fusible 3 Pole 30 60100 \$10.90 66101 \$12.70 60154 \$14.55 60155 \$18.15 60 60106 20.90 60107 27.25 60160 25.45 60161 29.05 60106 25.45 60161 29.05 60161 29.05 60106 25.45 60161 29.05 60161 29.05 60106 25.45 60161 29.05 60106 2	ACCESSORIES FOR NOARK SWITCHES Single Piece End Wall for 30 Amp. Switches. \$ 30 For 60 & 100 Amp. \$ 80 Shutter for " 30 " 15 60 " 100 " 30 Universal End Wall No. 909103. 40 Blanking Side No. 908103-908203. 15 Trough—3-4 & 5 * \$ 40-6 * \$.45-7 * 50 Cabinet Fuse Block No. 902413. 1.25
200 60109 32.70 60110 38.30 60163 40.00 60164 45.40 220-500 Volts Non-Fusible 3 Pole 3 Pole 3 Pole 4 Pole 3 Pole 60053 11.80 60054 14.50 60048 17.25 60049 21.80 60134 21.80 60057 25.00 60058 32.70 60136 25.45 60137 30.90 60060 33.60 60061 47.25	POLYPHASE Noark Switches Without End Walls 125-250 Volts "Doa'l" & 3 Wire "Accessible Fuses Sealed Fuses
QUICK BREAK ONLY Westinghouse "WK-62" Type "C"	Amps. No. Price No. Price No. Price No. Price 30A 851233 \$ 4.70 77033 \$10.50 77533 \$10.40
250 Volts Fusible Amps. 2 Pole 3 Pole 2 Pole 3 Pole	60A
30	30A. 931233 \$11.05 67033 \$11.15 67533 \$11.05 60A. 931236 16.65 67036 20.35 67536 16.80 100A. 931231 26.15 67031 30.00 67531 26.50
Amps. 2 Pole 3 Pole 3 Pole 3 Pole 4 Pole 30	MAIN ENTRANCE SWITCHES Noark Doall Without End Walls Amps. Fused For 2 Pole Numbers Price Numbers Price
MOTOR STARTING SWITCHES Westinghouse	30 Plug Fuses 818123-811123 \$2.70 81233-81433 \$3.45 30 Enclosed Fuses 853123-851223 3.75 85233-854333 4.30 60 "853126-851226 8.45 855336 8.90
Type Numbers Volts Fused 2 Pole 3 Pole 4 Pole WK-10 55803 110-220 For Plus Fuse \$ 9 10	100 " " 853121-851221 15.05 855331 15.95
WK-10 55864	SOLID NEUTRAL SWITCHES Noark Fusible—Quick Break Amps. Volts 3 Pole-2 Poles 4 Pole-3 Poles 5 Pole-4 Poles No. Price No.
GENERAL UTILITY SWITCHES	TOGGLE SWITCHES
Numbers Amps. Volts Fused For 2 Pole 3 Pole 8283	Bulldog 30 A125 V2 Pole-One Blade No. 111 & 211 BT-TE-TF # TM \$ 1.80 # TE-211S 4.50 # TE-211B 5.00 # TE-311B 5.00 # TE-311S 8.10 # TE-311S 8.10 # TE-311S 7.20
METER SERVICE SWITCHES Noark Sealed Service SECO Without End Walls	" 250 " 2 " Two " 2 Fuse Conn. TF-221S 5.40
Test Type 2 Pole 3 Pole 2 Pole 3 Pole 2 Pole 3 Pole 4 Pole 3 Pole 4 Pole 4 Pole 4 Pole 5 Pole	30 A500-800 V3 Pole-Three Blade 3 Fuse Conn. TF-321SG 7.65 30 A500-800 V3 Pole-Three Blade 3 Fuse Conn. TF-321SG 7.65 " " 250-600 " 2 " TN-261S 7.20 " " " " " 3 " TN-361S 7.20 " " " " " 3 " TN-361SR 10.80 Motor Starter 3 " TJM-321S & TJM-321SU 9.00
100A " 9561 23.85 9531 25.60 8561 23.00 8531 23.85	TYPE "C" SWITCHES
Noark Accessible Service ACCO Without End Walls Test Type 2 Pole 3 Pole 2 Pole 3 Pole 3 Pole 4 Mps. Fused For No. Price No. Price No. Price No. Price	Bulldog Single Throw Fusible Quick Make & Break 250 Volts DC & AC
30A Plug 9343 \$3.65 8343 \$3.35 30A 9353 3.95 9323 \$4.45 8353 3.65 8323 \$3.95 30A Enclosed 9363 4.85 9333 4.85 8363 4.55	Amps. 2 Pole 3 Pole 30 125 Volt only
60A " 9366 16.80 9336 17.70 8366 15.95 8336 16.80 100A " 9361 25.60 9331 27.40 8361 24.75 8331 25.60	30 End Plates
Noark Universal Without End Plates No. 971123 —Without End Walls\$3.45 a 9723 4.65	100 " " F223 12.60 F323 15.30 200 " " F224 19.80 F324 26.10 400 " " SF225 48.60 SF325 66.60
For Detailed	500-600 Volte A. C.
see Noark Catalog	30 125 Volt only
Amps. Fused For Numbers Price Numbers 913123-911123 \$ 2.70 912333-914333 \$ 3.45 30A Enclosed. 923123-921223 3.05 922333-924333 3.75 60A 923126-921226 8.45 925336 8.90 100A 923121-921221 15.05 925331 15.95	30 End Plates JF351
NUBLADE SWITCHES Noark Fusible	TYPE "C" SWITCHES
Amps. 250 Volts Fusible 500 Volts AC Fusible 2 Pole 3 Pole 2 Pole 3 Pole	Bulldog Single Throw Not-Fusible Amps. 2 Pole 3 Pole
No. Price No. Price No. Price No. Price Science No. Price No. Pric	30 250 Volts JN221S \$ 3.15 JN321S \$ 4.15 30 250-500-600 Volts JN251 7.65 JN351 8.10 60 " " " JN252 8.10 JN352 8.55 100 " " " " JN253 10.80 JN353 12.15 200 " " " " JN254 17.60 JN354 22.50 400 " " " " SN255 36.00 SN355 46.80
Noark Not-Fusible—Quick Break Amps. Volts 2 Pole 3 Pole 4 Pole No. Price No. Price No. Price	30 250 Volts
30	30 250-500-600 Volts N451 10.80
March, 1929	87

Switches									3	witches
SERVIO	CE ENTRANC Bulldon		CHES		S		NTRANC lumbia, 3	E SWITC	HES	
Black 30 Amp. 125 Volt For Plug Fuses 250 " Cart. Fuses 250 " Not Fusible	JE211 S & P SF221 S & P SN221 S & P	\$1.80 2.70 2.70	JE311 S & P	\$3.00	Single Fused Single Double " Doubl	le " 125		4	2 P 320-324 1930 3930 322	\$1.50 1.65 1.90 2.35 3.60
Builded Stee	"TYPE	_	and Break			" 250 Descrip	tion	"	322 422 3 J	3.60 Pole
		2 Pole	3 Po	le	Single Fused-Single Double " Doubl	Blade-125 \ le " 125	Volt-Plug F		1931-2	82.15
250 Volts Fusible 30 Amp. 60 " 100 "	Number SF 221 SF 222 SF 223 SF-224 SF-225	\$ 10.80 13.50 20.70	SF-322 SF-323	Price \$ 12.60 17.10 27.00	48 44 44	# 250 # 250		lge Fused	3936-1 326 423	2.50 4.00 4.50
400 "	SF-224 SF-225	32.40 63.00	SF-324 SF-325	36.00 81.00	BRANC	H CIRC	UIT ENT	RANCE S	WITCHES	\$
500-600 Volts Fusible 30 Amp.		For	SF-351	18.00			Columb	da		
60 " 100 " 200 " 400 "	See (Pole 800 Volt usible Selow	SF-352 SF-353 SF-354 SF-355	19.90 28.80 45.00 88.00	30 Amp. Series 2401 to 2406	Circuit 2 Pole \$4.00	Circui 2 Pole 3 \$5.00	Pole 2 Po	Circuit de 3 Pole 3.00 \$6.38	Circuit 3 Pole 5 \$7.35
250-500-600 Not Fusible 30 Amp. 60 " 100 "	SN-221 SN-251 SN-253 SN-254	\$ 9.45 11.70 19.80	SN-351 SN-353	11.25 13.95 21.60	3401 to 3406 3501 to 3506	5.00 4.85	6.35 6.00	6.65 7	.00 \$6.80 .35 8.70 .00 7.70	9.78
400 "	SN-254 SN-255	25.20 54.00	SN_354	30.60 63.00		INDUS	TRIAL S	WITCHE	S	
600 Volts Fusible 30 Amp.	SF-261	22.30		19.30			Columb	oia		
100 "	SF-262 SF-263	22.50 33.25	SF-362	19.80 31.70		Serie Amps	18 70 Type (Pole Pole	3 Po	1-
200 "	SF-264 SF-265	57.60 126.00	SF-364	48.60 122.00	250 Volts	30A	Number C7001	Price	Number	Price
600 Volts Not Fusible 30-60 Amp.		12.60		16.20	Fneible	60A	C7004	\$ 9.40 12.10	C7002 C7005	\$11.50 15.75 24.00 35.00
100 "	SN-261 SN-268 SN-264	20.25 26.50	SN-363	24.75	Quich Make & Break	100A 200A	C7007 C7010	19.10 28.35	C7008 C7011	35.00
400 "	SN-265	65.50	SN-365	33.75 87.75			70 Type			
250 Volts Fusible			4 Pol	Price		Ampi	Numbe		Number 3 Po	Price
30 Amp.			SF-421	\$ 16.20 21.60	250 Volts Fusible	80A	A7001 A7004	\$10.45 13.30	A7002 A7005	\$13.00 17.55
100 "			SF-421 SF-422 SF-423 SF-424	36.00 54.00	Quich Make	100A 200A	A7007 A7010	21.75 31.00	A7008 A7011	37.90 39.00
400 " 500-600 Volts Fueible			SF-425	108.00		Serie	71-500 Vol	ts Fusible		
30 Amp.			SF-451 SF-452	21.60 23.40		Ampi	Numbe	Pole Price	Number	le Price
100 "			SF-453 SF-454	47.80 57.60	500 Volts Quick Make	30A 60A	7101 7104	\$13.60 14.15	7102 7105	\$15.75 16.10
400 4 350-500-600 Not Fusible			SF 455	126.00	& Break	100A 200A	7107 7110	23.80 38.25	7108	27.00 42.80
30 Amp.			SN-421	16.20					7111	43.80
60 " 100 "			SN-451 SN-453	19.80 28.80		Ampi	73-500 Volta	Pole	3 Po	de .
400 "			SN-454 SN-455	40.00 103.50	500 Volts	30A	Numbe 7301	\$11.00	Number 7302	\$12.90
600 Volts Fusible 30 Amp.			SF-461	23.40 25.20	500 Volts Quick Make & Break	60A 100A	7304 7307	11.00 17.35	7305 7308	\$12.90 13.40 19.50
100 "			SF-462 SF-463	39.60		200A	7310	24.00	7311	28.80
200 # 400 #			SF-464 SF-465	59.40 144.00			ies 72-600 V		9 D.	1-
600 Volts Not Fusible 30-60 Amp.			SN-461	21.75	****	Amp	Numbe	Pole Price	Number Number	Price
100 " 200 " 400 "			SN-463 SN-464 SN-465	29.70 43.65 120.60	600 Volts Quick Make & Break	30 A 60 A 100 A	7201 7204 7207	\$14.80 14.80 24.50	7202 7205 7208	\$16.25 16.75 27.60
	ENSATOR SW	/ITCUES		120.00		200A	7210	39.00	7211	43.00
	Duick Make &					Ampi		te Unfused Pole	8 Po	
Ampa	250 \	Volt AC			600 Volts Quick Make	30A	Numbe 7401	\$11.90	Number 7402	Price \$14.50
30 A. SF3 60 A. SF3	21 C 8 Pole \$16	.20 S	F421 C	\$ 21.60	Quick Make & Break	60A 100A	7404 7407	12.60 19.20	7402 7405 7408	\$14.50 15.10 21.75
100 A. SF8	123 C 31	.25	F422 C F423 C	26.10 46.80		200A	7410	25.50	7411	29.65
200 A. SF3 400 A. SF3	124 C 45 125 C 94	.90 S	F421 C F422 C F423 C F424 C F425 C	64.80 129.00		Series	20-250 Vol	ts Fusible Pole	3 Po	de.
Amps.	9 Pole	0-600 Volte			Quick Break	30A	Numbe 2022		Number 2023	Price \$ 6.95
30 A. SF3 60 A. SF3	51 C \$20	.70 S	F451 C F452 C	\$32.40 36.00	Only 250 Volts	60A 100A	2025 2028	6.95 10.95	2026 2029	8.00 13.55
100 A. SF3 200 A. SF3	53 C 33	.75 S	F453 C	61.20	200 1010	200A	2031	19.35	2032	24.20
100 A. SF3	55 C 105	.60		****				olts Unfuse		
COMPE	ENSATOR SW	ITCHES	"A"			Amp	Number	Pole Price	Number	Price
Bulldog Quick Bre	eak Only 600	Volts 3 P	ole Only Fu	sible	Quich Break Only 350 Volts	30A 60A	2322 2325	\$ 4.85 9.10	2323 2326	\$ 6.88 9.70
Amps.—3 Pole 3 Numbers—3 Pole SF	0 A. 60 A -361 C SF-36	C SF	00 A. 2 -363 C SF	00 A. -364 C	350 Volts	100A 200A	2328 2331	11.50 19.40	2329 2332	12.70 23.60
Price—3 Pole \$2	3.00 \$23.4			54.00	Series 3	30-Quick	Break-250	Volts For M	eter Trime	
	MOTOR STA				2 Pole		30 Am	\$0.00	80 Am	\$ 8.90
	Bulldog	-	3 Pol		3 Pole		3023	7.65	3026	10.00
O Amp Type C-Porc. Bas	e-1:0 to 440 Volt		JM-321S JM-351	\$ 6.75 11.70	2 Pole		3028	\$12.70	200 Am 3031	\$18.35
30 " " C Slate " A 800 " " A 600 " " A	440 & 550 " 250 Volt 500 "		MF-321 MF-351	17.00 23.75	3 Pole	******	3029	16.30	3032	34.85
50 " " A	250 " 500 "		MF-322 MF-352	23.50 28.30		OTOR S	TARTIN	G SWITC	HES	
	000		4 Pote				mbia, 25		-120	
O Amp-Type C-Porc. Bas	440 & 550 " 250 Volt			*****				2 Pole	31	Pole
80 " " A	250 Volt 500		MF-421 MF-451	\$22.80 35.25	30 Amp. Motor Sta			6001 \$12 6004 13	.70 6002 .30 6005	\$17.00 17.45
50 " " A	250 " 500 "		MF-422	29.45	30 Amp. Motor Sta				6003	Pole \$20.00
	Switches not list	ed deduct 1	0% from Build	dog Lists.	60 " " "		CLECTE		6006	27.20
88						E	ELECTR	ICAL C	ONTRAC	TING

20. 1	0-11-1		sworth		0.11		STEI	L WOO	D SCRE	VS—Fla	t Head	-Con	tinued	1
No. 25 26 27 30 31 33 38 39 131	Switches Price \$2.20 2.65 2.50 1.55 1.65 2.50 3.75	30 Amp. Number 322 331 382 340 341 360 361 362	Price \$ 6.20 4.85 6.85 4.75 5.05 3.20 4.85 4.15	30 Amp. Number 1428T 1450T 1450T 1451T 1500 1502 1508	•	Price 5.45 3.65 4.25 3.95 4.60 4.15 4.80 4.80	Length 1145 224 224 224 234 234 234 234 234 234 234	Num Per D	nber Dozen	Up To 4 \$ 95	Price No. 5 \$.05	Per Dos No. 6 \$.05 .05 .05 .06	No. 7 \$.05 .05 .05 .06 .08	No. 8 8.05 .05 .05 .06 .10
191 123 133 141 142 143 144 145 151 152 153 215 211 212 213 214 221 221 222	3.90 3.30 4.15 3.75 4.15 4.55 4.95 3.40 3.40 3.40 3.40 3.45 4.15 3.75 4.15 3.75 4.15 3.75 4.35 3.75 4.35 4.35 4.35 4.35 4.35 4.35 4.35 4.3	370 372 380 382 382 440 441 441 441 461 462 463 464 633 734 1013 1014 1202 1212 1212	4.15 4.95 5.05 5.16 6.20 6.55 6.55 7.05 6.70 7.05 6.70 5.35 11.15 4.20 6.10 3.95 4.75	1511 1512 1530 1532 1543 1612 1630 1632 1643 2284 2294 2441 2461 2462 2463 2463 2464 2534 2633	1	4.50 5.10 9.00 5.10 4.05 9.85 4.25 6.70 6.55 7.05 6.70 6.70 6.75 4.65	Length	Nui Per D	mber bozen or or or or or or or or or or or or or	No. 9 \$.05 .05 .05 .05 .05 .05 .05 .05 .05 .05		\$ 06 .08 .09 .10 .11 .12 .13 .16 .17	ozen	
238 241 242 248 244 271 272 273 278 274 284 292	3.75 5.45 5.10 5.45 5.10 4.00 4.70 4.40 5.20	1250 1322 1328 1402 1403 1401T 1402T 1403T 1411T 1412	3.65 4.16 4.75 3.95 4.25 4.55 4.55 4.55 4.55	2639 3032 3033 3532 3533 3534 3539 3632 3633 3634	1	4.65 11.15 12.00 9.10 10.00 13.30 10.00 16.80 21.15 22.05	Length	Nur Per D	ound, Fl	Up to 4 \$.06	Price No. 5 \$.06 .07	Per Doz No. 6 \$.07 .08	No. 8 8.08 .09	No. 9
60 Amp. No. 161 162	4.00 5.75 Switches Price \$ 9.60 9.15	100 Amp Number 102 110	5.20 4.75 sworth Switches Price \$15.70 16.55	3639 200 Amp Number 522 523	. Swite	Price 19.80 24.95	114" 115" 224" 234" 235"	44 44 44 64 64 64 64 64	66 61 62 63 64 65 65 66	.07	.07	.08 .08 .09 .11 .14	.10 .11 .12 .13 .15 .20	.11 .12 .13 .15 .17 .22
163 171 172 503 1762 1763 1764 1769 1800 1802 1802 1803 1812 1812 1830 1834	11.80 9.35 9.15 11.45 11.40 16.30 22.75 21.45 21.70 15.70 16.55 17.40 17.40 19.10 20.90 17.40	111 112 113 513 1033 1034 1712 1713 1714 1719 1900 1902 1903 1912 1930	16.55 15.70 18.95 17.25 11.35 16.50 27.35 35.40 30.90 24.35 25.20 26.10 28.70 30.50	722 723 724 729 1042 1043 1044 2622 2623 2624 2629 3522 3523 3524 3529 3622		37.05 51.90 51.90 51.90 61.90 62.00 63.00	Length 14, 14, 11, 12, 12, 12, 12, 12, 12, 12, 12, 12	Per I	mber Dozen " " " " " " " " " " " " " " " " " "	No. 10 \$.11 .12 .14 .15 .16 .20 .26 .30 .33 e 7 times.	Price No. 12 \$.14 .15 .18 .20 .25 .30 .35 .40 .45	Per Do No. 14 ***.22 ***.24 ***.32 ***.40 ***.50 ***.60		8.60 8.65 .75 .85
1843 1851 2030 2034 2042 2043 2051 2662	18.25 16.55 15.65 17.40 15.70 16.55 14.80 8.70	1942 1943 1951 2130 2134 2142 2143 2151	26.10 27.90 26.10 25.20 26.95 24.40 26.10 24.40	3623 3624 3629 400 Amp. 642 643	Switc	17.35 53.20 47.35	Length	ь	**************************************	31/4" \$.05	** *.05 .07	436" \$.05 .08	5°	6° \$.10
2664 3662 3663 3664 3669 3569 3563 3564 3569	13.30 17.05 22.05 24.00 22.05 9.75 11.55 13.75	2614 3512 3513 3514 3519 3612 3613 3614 3619	25.80 14.85 17.75 25.60 17.75 24.85 31.95 35.90 31.95	742 743 744 749 1052 1053 1054 2542 2543 2544 3542 3543 3544	7 2 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	81 .65 75 .13 91 .30 75 .15 96 .30 47 .85 86 .00 49 .50 81 .00 86 .65 54 .45 78 .40 94 .05 78 .35	Tinned Strap Light Steel St Mall. Iron Str Tinned Strap Light Steel St Mall. Iron St Tinned Pipe S	2 Hole Praps-1 Hole aps-1 Hole Praps-1 Hole	le Price Each e Price Each rice Each ele Price Eac le Price Eac	\$.01 03	\$.01 .03 .07 11/4" \$.02 .10 .25		\$.01 .07 .10 214" \$.04 .30 .70	\$.01½ .08 .15 3" \$.05 .45 .95
EXT	RA END V		HUTTERS- sworth	1	-ETC.	Meter			S 40-60	OLDER 50-50				Allen
" 60 "	p. 125 Volt S 250 " 2	witches \$	Type of Tr lat Extende 30 \$.50 50 .65 65 .83	d Shutter S	out & S Shutter \$.30 .35 .45		Per Pound		Bar or Wire \$.70 .10	Bar or Wire \$.85	Resin Core \$1.15 .10	30- \$.1	70	Alumi- Flux \$2.70 .20
" 100 " " 100 " " 200 "	250 " 3 250 " 3 250 " 3 250 " 3	66 66	75 .90 82 1.00 90 1.10 00 1.15	.75 .82 .90 1.00	.50 .45 .50 .50	•••			SOLI	DER PAS	STE	н	alf	One
" 200 "	250 ⁴ 3		NDRIES	1.10	.55		Allen Burnley		2 oz. Cans \$.30 .20	2 oz. Tubes \$.40	4 oz. Cans 3.55 .30	Pot Ca \$.5	n* 10	Pound Cans \$1.45 .70
	S		OD SCRE	ws			Crescent G. E Highland Nokorode		.25 .20 .30	• • • •	.35	.1	55 75 75	1.30 1.40 1.30
Length	Num Per Do	ber t		\$.05 .05 .05 .05 .05 .05 .05		No. 8 \$.05 .05 .05 .05 .05 .05 .05	Burnley	entIn	cans each.	ERING S			\$.40 .80 .70 .70	1 Lb. \$.75 1.50 1.00 1.00 .75 1.00



A NEW VIEW OF LIGHT

proving the importance of

BALANCED LIGHTING

LIGHT is no longer looked upon as an indefinite quantity that comes rather vaguely out of a lamp when we push a button.

We are making a lighting fixture answer a great many scientific questions accurately today. It must tell us, what is its lighting value at any given level and at any given distance. It must reveal the exact shape of its light. It must plot its curve. It must tell whether or no, in any certain case, it will waste the eye-

sight, the nervous force and the efficiency of our workers.

The Shelcrest, a Bakelite fixture. The leader in the Graybar line. But only one of a great many fixtures.

Horizontal	Reflected			
Light 13.	Glare			
Vertical	Direct			
Light rs.	Glare			
Shadow	Flat			
Depths es.	Shadows			
Maintenance	Firet			
& Design rs.	Cost			

Showing how various factors balance, for best results All of which brings us to Balanced Lighting. And to the eight points which determine Balanced Lighting. And to the idea of the Graybar Lighting Line.

No one fixture will check up perfectly on all eight points. No one fixture could ever hope to, or should. But the Graybar Line includes just the right fixture for any given purpose—a unique Graybar idea.

More information on the eight points? See the coupon below!

Graybar Successor to Western Electric Supply Dept.
BALANCED LIGHTING

-coupon-

Graybar Electric Co., Room 1501, Graybar Building, Lexington Avenue and 43rd Street, New York, N. Y. Gentlemen: We are interested in knowing more about BALANCED LIGHTING.

NAME

ADDRESS

CI

Another Step Toward Standardization



No. 5892
3 Pole
Meter Attached Ready
for Wiring
List Ea. \$2.62

Three Switches In One

2 and 3 Pole

Single Fusing

30 A.-125 V.

- 1—For use with Standardized Meters
 (No special Meter Trims required).
 Remove inner twistout in top end to accommodate new standardized 5-15 Amp. Meters.
- 2—For use with Special Meter Trims as used in Cincinnati. Reverse top end (remove two screws) and remove outer twistout to accommodate trims which slide into place.
- 3—Not used with Meters.

 Conduit knockouts are provided in top end as well as in other faces and back of box.



No. 5891 2 Pole List Ea. \$2.00

STANDARDIZATION

The fact that Meter Manufacturers have standardized on the size of meter terminal chambers enables us to offer one type of switch for several uses.

This type of switch, made both in 2 and 3 Poles, will accommodate the new 5-15 Amp. Meters of all manufacturers without the use of additional meter trimming devices. However, in certain localities where certain types of meter trims are specified, as in Cincinnati, this switch will fill the bill as explained above.

This switch also as it stands without removing twistouts fills the bill for either a 2 or 3 Pole Entrance Switch for which every contractor knows many applications.

THESE TWO SWITCHES SHOULD BE CARRIED IN STOCK BY EVERY CONTRACTOR

THE TRUMBULL ELECTRIC MFG. CO.

Plainville, Conn.

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To maintain the quality standard, Crescent wire products are under constant and close observation, in all processes of manufacture.

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- "Crescent" National Electric Code Rubber Covered Wire and Cable.
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- "Imperial" 30% Rubber Covered Wire and Cable.
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 "Crescent" Lead Covered
 Armored Cable.
- "Crescent" Flexible Metallic Conduit.

Conduit.

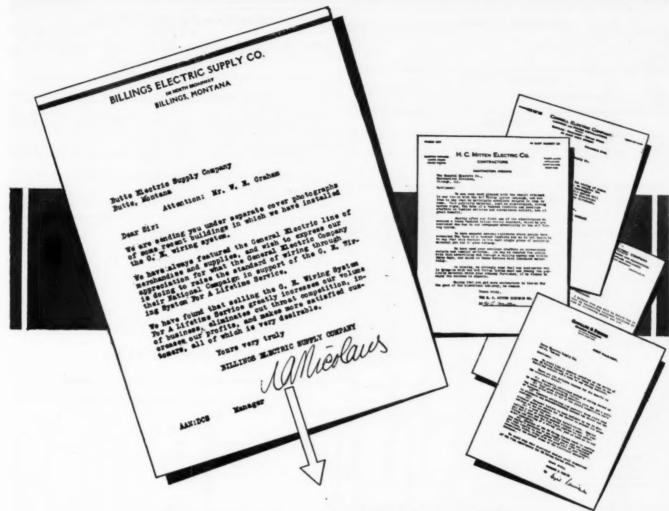
Lamp, Heater, Brewery, Canvasite and Packinghouse Cords; Plain Rubber Sheathed and Braided Portable Cords; Elevator Lighting, Control and Annunciator Cables; Borderlight and Stage Cables; Dampproof Office and Annunciator Wires and Cables; Special Flexible Cords, Cordage and Cables for Telephone Instruments and Radio; Magnet Wires—cotton and silk covered; Organ Wire and Cable; Bare and tinned copper wire and cables.



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STAPLES Staples Insulated Nails Per Dozen. Leather Nail Heads Per Dozen. Milonite Insulated Nails Per Dozen.						
FIXTURE STUDS						
Buraley Eaco		STICKS		\$.26 .21 .21 .31		

TAPE

	FRIC	TION 1	LAPE			
			Per			
		Per	Half	Per 2	Per 1	Per
A	P-i-si	Pound	Pound	Ounce	S.05	Foot \$.01
Amazon Adhere	Friction	\$.60	\$.30	\$.10	.05	
Bulldog		. 65	.35	.10		.01
	44	.70	.40	.10	.05	.01
Cataract	44	. 55	.30	.10	.05	.01
Commodity	44	. 55	.30	.10	. 05	.01
Dutch Brand	44	.65	.35	.10	. 05	.01
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Eaco	4	. 95	. 50	. 15	. 10	.02
G. E.	44	. 55	. 30	.10	. 05	.01
Grimshaw		1.95	1.00	. 20	. 10	.02
Holdfast		1.00	.55	.15	.10	
Holdtite	68	.75	.35	. 10	.05	.01
IXL	48	. 65	. 35	.10	.05	.01
Illinois	44	. 55	.30	.10	.05	.01
Johns Manvi	lle Armature	1.75	.90	.20	.10	.02
44 44	Jomanco	1.15	.60	. 15	. 10	.02
64 68	White	1.35	.70	. 20	. 10	.02
66 68	No. 3 Now No. 5.	.75	.40	.10	. 05	.01
66 66	No. 6 " " 40.	. 60	.30	.10	. 05	.01
Taxon		.60	.30	. 10	. 05	.01
Leader	* * * · · · · · · · · · · · · · · · · ·	.70	.35	.10	. 05	.01
Manson		1.20	. 65	. 20	.10	.02
		.75	.40	.10	. 05	.01
		.60	.30	.10	.05	.01
		1.00	.55	.15	.10	.02
Peerless		.60	.35	.10	.05	.01
Service		.90	.50	.15	.10	.02
Stannat		.55	.30	.10	.05	.01
		.55	.30	.10	.05	.01
		.55	.30	.10	.05	.01
Victor W. E.		1.10	.60	.15	.10	.02
Vim Gray						
W. E. Railwa	y Signal	1.00	.45	. 15	.10	.02
T. D. Kellwi	ay megiat	1.00	,40	. 10	. 20	

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		Ī		R	ı	Л	BER T	APE			
Amezon	Rubbe	 -					\$.95	\$.45	\$.15	\$.10	\$.04
Alexali Alpha	-						1.20	.65	.15	.10	.04
Brooklyn	44			 			.70	.35	.10	. 05	.03
Cataract Dutch Brand	44	0 1					.70	.40	.10	.05	. 03
Eleco	44						.60	.30	.10	. 05	. 03
G. E. Holdfast	44						1.00	. 35	.10	.05	. 03
Imperial	**				3		.65	.35	.10	. 05	.04
Illinois Okonite	66						1.55	.80	.20	.05	.04
Para Pitteburgh	**						.75	.40	.10	.05	.03
Relio	46						.65	.30	.10	.05	.03
Security U.S. Rubber	64	0 (. 55	.30	.10	.05	.03
W. E. Victor	44						. 55	.30	.10	.05	.03

TIME SWITCHES

Specials. Buckeye Combination Time Swit AC Capacity up to 125A110 or 220 DC	tch Remote Volt-2 & 3	Control U	Without Term. Box \$19.50 23.00 26.00 30.00 26.00 nit Comple	With Term. Box \$28.00 30.00 36.00 30.00 ete \$70.00 125.00
Type B Single or Double Pole	10 Amp. \$36.00 38.00 39.00 41.00 38.00	20 Amp. \$39.00 41.00 42.00 45.00	35 Amp. \$42.00 45.00 47.00 49.00 60.00	50 Amp \$50.00 52.00

PA	RAGON	T	IME S	WIT	CHES			
Indoor		AI	250 Vol			(utdo	100
No. 1-\$47.00	30 /	mp	. Double	Pole		No	2-	\$47.00
No. 1- 59.00	50	66	66	66		No	2-	59.00
No. 1- 59.00	80	60	Triple	84		No	3-	59.00
No. 3-45.00	20	66	Double	61		No	4-	45.00
No. 3-40.00	10	66	44	60		No	4-	40.00
No. 3- 45.00	10	66	Triple	64		No	4-	45.00
Sunday Shut Off-Ext Attachment for Turning	ra	r				 		\$5.00 5.00
0.4								

RELIANCE & RACINE SWITCHES

	10 Amp.	20 Amp.	30 Amp.	50 Amp.
Racine Type 1R-2R-3R	\$19.50 28.00	\$23.00 30.00	\$32.00	\$36.00
Reliance Type 15 Triple Pole		32.00		

TORK TIME SWITCHES OR CLOCKS

Description	Indoor	Outdoor	Switchboard
Single Pole 15 Amp. 125 Volt	#115-\$20.00	#215-\$25.00	#015-\$19.00
	#130-25.00		
	#166— 25.00		
Double " Momentary Contact			
Dble. Pole 30 A. 250 V. Windless	#730 60.00	#830 65.00	#930- 58.00

Combination Type-with Clock and Contactor

For AC Only No. 76062 \$50.00 No. 76102 75.00	Description 60 Amps. 2 Pole 100 4 2 Pole	For DC O No. 75062 No. 75102	\$ 70.00 125.00
	ZENITH		
D i . i .	Closed Face		indless
Description 10 Amp. Double Pole	No. 110 \$20.00	No. 134 \$26.00	AC \$ 25.00
20 H H H	23.00	28.00	\$ 25.00
20 " " " " " " " " " " " " " " " " " " "	25.00	30.00	46.00
60 "			55.50
100 "	*****	*****	77.50
200 "	*****		110.00
Apartment House	26.00	30.00	

TRANSFORMERS

BELL & TOY TRANSFORMERS

			Secondary	50 to	133 le	25 to Cycle	
	Style Steel Clad Bell Porcelain Bell Out. Box Bell Heavy Duty " Toy "	Watt 25 25 25 25 50 75 100 50 75 100	Single Three Single 8-16-24 " 3 to 18 3 to 24 2 to 30	No. 86 1 86T 87 86ER 88 89 90 870 871 872	Price 1.30 1.55 1.55 1.55 4.60 6.95 8.10 3.85 6.35 9.50	No. 86 86T 87 86ER 88 89 90 870 871 872	Price 1.50 1.75 1.75 1.75 5.10 7.65 9.00 4.50 7.65 11.40
G. E.	Bell Residence Box Type Heavy Duty	50 100	12 Volt 12 " 8-16-24 10-20-30	2332 2488 2333 2334	1.30 1.45 5.10 8.05	192340 2490 2339 2340	
немсо	Mold. Single Mold. 3 Circuit Steel Sgle. Cir. Steel 3 Circuit Box Ty'e Sgle. Ci Box Type 3 Cir.	25 25 25 25 ir. 25 25	8 Voits 6 to 18V. 8 Volts 6 to 18V. 8 Volts 6 to 18V.	221 222 225 226 227 228	1.50 2.00 1.45 1.65 1.50 2.00		
JEF- FERSON	Wizard Nucode Tri-Volt Porcelain Little Jeff Toy Midget Toy Model 2 Toy Model 3 Toy Heavy Duty A " B " C " E	25 25 25 25 50 75 100 150 75 125 250	10 Volt 11 Volt 6 to 18V. 5½-13 5½-22 5½-23 1-30 6 to 20 6 to 20 6 to 24 6 to 34	230-101 230-111 230-121 230-131 535-101 535-121 535-131 535-141 231-101 231-111 231-141	1.30 1.45 1.45 1.45 3.65 4.50 6.65 8.55 5.00 7.60 10.15 20.80	230-102 230-112 230-122 535-102 535-122 535-132 231-102 231-112 231-122 231-142	1.50 1.65 1.65 4.30 5.40 8.25 7.10 10.10 12.80 25.65
KILLARK	Blue Bell Tri-Volt Box Type Porcelain Case	10 20 10 10	8 Volt 6 to 16 8 Volt 8 Volt	6166 6163 7166 4166	1.25 1.45 1.45 1.45	6126	1.40
RITTEN- HOUSE	A Single Volt A Three " B" C" " D" " Porcelaia Box Type Troy 1-1 unior " 2-Senior " 3-Niagara	25 25 50 75 125 25 25 50 100 150	8 Volt 6 to 14 6 to 14 8 to 24 15 to 40 8	A-1 A-13 B-1 C-1 D-1 AP-1 OB-1 No. 1 No. 2 No. 3	1.30 1.55 4.10 6.00 9.75 1.45 1.50 3.75 6.25 9.50	A-1 A-13 B-1 C-1 D-1 AP-1 OB-1	1.50 1.75 4.50 6.75 12.00 1.75 1.75
STAN- LEY PATER- SON	S-1 Sgle. Volt S-3 3 Volt D-1 Sgle. Volt	15 15 25 25 50 100 200 300		S-1 S-3 D-1 D-3 HD-1 EHD-1	1.30 1.40 1.50 1.70 5.35 6.65 18.00 21.00		

ELECTRICAL CONTRACTING

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RUBBER COVERE	D WIRE	S	
Special Price on No. 14	S.B. Wire		
In less than Coil Lots			
		ice Per Fo	
Other Sizes Fixture Wire Light	No. 18 \$.01 .0134	No. 16 \$.011 .011	No. 14
Solid Single Braid	.01 .01¾	.0114	See Above
Stranded Sgle. Braid	.011/4	.0134	.02
Duplex Single Braid			.0436
Orber Sierra No. 10	Price P	er Foot	No a

LA	RGER	SIZES	DOUB	LE	BRAID	STRAND	ED
Duplex Sing	le Braid. ble " .		::: ::	05 051⁄3	.06	.0814	******
Stranded Sa	le. Braid ble.		0	0214 0214	.031/2	.0434	.0614
Solid Single Doubl	Braid		\$.0)2)2}{	\$.0234 .0332	\$.04 .0435	\$.06¾ .06¾

0'																															Pe		Pri Fo	
No. 8 1	-	-																																
																																5.	05	
No. 6 1	D.	B.,															 		 									 					06	1/2
No. 4	D.	B.,															 		 			 						 					09	
No. 3 1	D.	B.,															 		 									 					11	
No. 2 1																																	12	
		B.,																															17	
No. 0.					 												 					 						 					.20	
No. 00					 										 		 					 						 					24	
No. 00	0.																 					 											.29	
No 00	ñò		 *	-		-	-	 	-	-	- '	 	-	-		-				-	-		-	-	-	 _	-	-	-				35	

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350,000	C.	M		9																										 						.1	
400,000	C.	M																												 						.6	13
450,000	C.	N																												 						.7	
500,000	C.	M	L.																									 		 						.7	
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900,000																																			1	.4	11
1,000,000																																			1	.!	53

	Trit	ole Br	aid				
Per Pound Solid	No. 18	No. 16 \$.60	No. 14 \$.56	Price No. 12 \$.53	No. 10 \$.49	\$.46	\$.43
Per Foot Solid	.01 .0134 90	.0136 .0136 70		.02 .0234 30	.62 .03 .031/4 20	.53 .03¼ .04 13	.47
EXTRAS—For slow burning For Twisted Pair For Double Braic For Medium Har	W. P.	Wire-	Per Pou	nd Extra	a	• • •	.01 .02 .01 .003/2

WEATHERPROOF WIRE

For Armored Cables See Page PL-9.

WIRES, SUNDRY

	Des	eription	No. 18	No. 16
Fixture Wire		Per Foot	\$.01 .0114 .0114 .0114	\$.01½ .01½ .01½ .01¾
Annunciator Wire	Single Twisted or Duplex	Per Pound	.60 .0034 .70	.60 .00% .65
Office & Damp Proof Wire	Single Twisted or Duplex	Per Pound	.80 .01 .85 .02	.75 .013 .80 .023
Deltabeston" 'Rockbestos" or similar (Nitrogen)	Single Stranded Co Single Glazed Cott Single Artificial Sil Duplex Glazed Co Duplex Artificial S Twisted Pair Glaz	ack Per Foot	.03 .04 .04 .04 .08 .09 .08	.033 .04 .04 .05 .09 .10

ABTRIVI	MOTATOR	PETER	PDII	ANTE I	DANC)	0		
Asbestos Range	Asbestos Ra	nge Wir	escription of the correction o	tch Boa	rd Wire	No.	18	No. 16
Wire	Per Foot	• • • • • •				. \$.06	•	\$.07
Annunciator Wire	Single Twisted or	Duplex	Per For	nd		01		No. 12
Office & Damp Proot Wire	Single Twisted or	Duplex	Per Foo Per Por Per Foo	and		75	36	
"Deltabeston" "Rockbestos" or similar (Nitrogen)	Single Strat Single Strat Single Glaz Single Arti Duplex Gla Duplex Art Twisted Pa Twisted Pa	nded Cott ficial Sil zed Cot ificial Si ir Glaze	olored Per on Per k Per F ton Per ilk Per d Cotto	Foot Foot Foot Foot Foot	oot.	8	04 05 05 05 05 10 11 10	\$.05 .06 .07 .08
Asbestos Range Wire	Asbestos Ra Per Foot						08	.09
	COVE	RED T	ELEF	HON	E WIR	ES		
Inside Ph ^e ne V Outside "	Vire Per Ft	\$.03	2 No. 20 \$.03 .03	\$.03 .03		No. 17 \$.04 .0316	\$.05	No. 14 \$.06 .05
	GALVAN	NIZED						
EBB Extra Be B. B. Best Be	Size BWG	und	No. 4 \$.13	No. 6 \$.13	No. 8 N \$.13	\$.13 12	No. 12 \$. 14	No. 14 \$.15
Steel Weight Per 10 Weight Per M	00 Feet		.11 153 811	.11 112 590	.11	.11	.12	.13

WIRE, MAGNET

			Price Pe	r Pound	1		
	Single	Double	Single	Double	Pasmel.	Enamel-	Enamel-
Size	Cotton	Cotton	Silk	Silk	ed ed	Cotton	Cotton
6	\$.72	\$.74	Sitta	SIII		Cotton	Cotton
8	.74	.76			*****	****	*****
io	.75	.80		*****	\$.73	\$.80	\$.83
2	.77	.83			.75	.82	.86
4	.80	.85			.78	.86	. 92
6	.82	.90	\$ 1.15	\$ 1.35	.80	.89	.97
8	.85	.95	1.20	1.55	.83	.95	1.0
00	.90	1.10	1.25	1.65	.85	1.05	1.1
22	.97	1.20	1.40	1.85	.87	1.15	1.2
24	1.10	1.35	1.60	2.25	.93	1.25	1.4
26	1.25	1.65	1.90	2.65	1.10	1.45	1.8
28	1.50	2.10	2.25	3.20	1.15	1.70	2.3
30	1.85	2.60	2.75	4.10	1.20	2.10	2.8
32	2.30	3.40	3.65	5.50	1.35	2.70	3.7
34	3.00	4.00	4.70	7.50	1.55	3.40	4.7
36	4.00	5.25	6.20	10.00	2.00	4.75	5.7
38	5.75	8.00	8.90	15.10	2.25	5.55	9.2
10	8.00	11.50	13.30	20.50	4.10	9.00	13.1
N	OTE: Fo	r odd sizes	use half the	increase o	of next lar	ger size.	
		r 1/4 lb. lots					
	Fo	r one ounce					_
			Price Per			Enamel-	
	Single	Double	Single	Double	Enamel-	ed Single	ed Double
0:	0	0					
Size	Cotton	Cotton	Silk	Silk	ed	Cotton	Cotton
6	\$6.00	\$6.10	Silk	Silk	ed		
6	\$6.00 3.70	\$6.10 3.90	Silk	Silk		Cotton	Cotton
6 8 10	\$6.00 3.70 2.80	\$6.10 3.90 2.90	Silk	Sills	\$2.45	Cotton \$2.90	Cotton \$3.10
6 8 10	\$6.00 3.70 2.80 1.85	\$6.10 3.90 2.90 1.90			\$2.45 1.65	\$2.90 1.85	\$3.10 2.00
6 8 10 12	\$6.00 3.70 2.80 1.85 1.25	\$6.10 3.90 2.90 1.90 1.30			\$2.45 1.65 1.05	\$2.90 1.85 1.20	\$3.10 2.0 1.3
6 8 10 12 14	\$6.00 3.70 2.80 1.85 1.25 1.00	\$6.10 3.90 2.90 1.90 1.30 1.10	\$1.20	\$1.35	\$2.45 1.65 1.05	\$2.90 1.85 1.20 1.00	\$3.1 2.0 1.3 1.2
6 8 10 12 14 16	\$6.00 3.70 2.80 1.85 1.25 1.00	\$6.10 3.90 2.90 1.90 1.30 1.10 .80	\$1.20	\$1.35 1.00	\$2.45 1.65 1.05 .85	\$2.90 1.85 1.20 1.00	\$3.1 2.0 1.3 1.2
6 8 10 12 14 16 18	\$6.00 3.70 2.80 1.85 1.25 1.00 .75	\$6.10 3.90 2.90 1.90 1.30 1.10 .80	\$1.20 .90 .75	\$1.35 1.00 .80	\$2.45 1.65 1.05 .85 .65	\$2.90 1.85 1.20 1.00 .80	\$3.1 2.0 1.3 1.2
6 8 10 12 14 16 18 20 22	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70	\$1.20 .90 .75	\$1.35 1.00 .80	\$2.45 1.65 1.05 .85 .65 .55	\$2.90 1.85 1.20 1.00 .80 .70	\$3.1 2.0 1.3 1.2 1.0
6 8 10 12 14 16 18 20 22 24	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45	\$1.20 .90 .75 .50	\$1.35 1.00 .80 .55	\$2.45 1.65 1.05 .85 .65 .55 .35	\$2.90 1.85 1.20 1.00 .80 .70 .50	\$3.1 2.0 1.3 1.2 1.0 9.7
6 8 10 12 14 16 18 20 22 24 26	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40	\$1.20 .90 .75 .50 .45	\$1.35 1.00 .80 .55 .50	\$2.45 1.65 1.05 .85 .65 .35	\$2.90 1.85 1.20 1.00 .80 .70 .50	\$3.1 2.0 1.3 1.2 1.0 .9
6 8 10 12 14 16 18 20 22 24 26 28	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40 .30	\$1.20 .90 .75 .50 .45 .35	\$1.35 1.00 .80 .55 .50	\$2.45 1.65 1.05 .85 .65 .55 .30	\$2.90 1.85 1.20 1.00 .80 .70 .50 .40 .255	\$3.1(2.0) 1.3.1.22 1.00 2.77 66 3.33
6 8 10 12 14 16 18 18 20 22 24 26 28	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25 .20	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40 .30 .25	\$1.20 .90 .75 .50 .45 .35 .30	\$1.35 1.00 .80 .55 .50 .40 .35	\$2.45 1.65 1.05 .85 .65 .55 .30 .20	\$2.90 1.85 1.20 1.00 .80 .70 .50 .40 .25 .23	\$3.1(2.0) 1.3 1.22 1.00 9.7(6.3)
6 8 10 12 14 16 18 20 22 24 26 28	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40 .25 .20	\$1.20 .90 .75 .50 .45 .35	\$1.35 1.00 .55 .50 .40 .35 .30	\$2.45 1.65 1.05 .85 .65 .35 .30 .30	\$2.90 1.85 1.20 1.00 .70 .50 .40 .25 .23	\$3.1(2.00 i.3.3 i.22 i.00 i.3.3 i.22 i.20 i.3.3 i.22 i.20 i.3.3 i.22 i.20 i.20 i.20 i.20 i.20 i.20 i.20
6 8 10 12 14 16 18 20 22 22 24 26 28 30	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25 .20 .15	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40 .30 .25	\$1.20 .75 .50 .45 .30 .25	\$1.35 1.00 .80 .55 .50 .40 .35 .30 .25	\$2.45 1.65 1.05 .85 .65 .35 .30 .20 .18 .15	\$2.90 1.85 1.20 1.00 .80 .70 .50 .40 .25 .23	\$3.1(2.0) 1.3 1.2 1.00 9.77 63 3.3 2.2
6 8 10 12 14 16 18 20 22 24 26 28 30 33 34	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25 .20 .15	\$6.10 3.90 2.90 1.90 1.30 7.70 45 40 .20 .25 .20	\$1.20 .90 .75 .50 .45 .35 .30 .25 .20	\$1.35 1.00 .80 .55 .50 .40 .35 .30 .25	\$2.45 1.65 1.05 .85 .85 .35 .30 .20 .18 .15 .12	\$2.90 1.85 1.20 1.00 .80 .70 .50 .40 .25 .23 .20	\$3.10 2.00 1.33 1.22 1.00 .99 .77 .66 .33 .32 .22
6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25 .20 .15 .12	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40 .25 .20 .15	\$1.20 .90 .75 .50 .45 .35 .30 .25 .20 .15	\$1.35 1.00 .80 .55 .50 .40 .35 .30 .25	\$2.45 1.65 1.05 .85 .65 .35 .30 .20 .18 .15	\$2.90 1.85 1.20 1.00 .80 .70 .50 .40 .25 .23 .20	\$3.1(200) 1.3 1.2 1.00 9.77 6.3 3.3 2.2 1.1 1.1
6 8 10 12 12 14 16 18 20 22 22 24 26 28 30 32 33 4 36 38 40	\$6.00 3.70 2.80 1.85 1.25 1.00 .75 .65 .40 .35 .25 .20 .15 .10 .10	\$6.10 3.90 2.90 1.90 1.30 1.10 .80 .70 .45 .40 .25 .20 .15 .12	\$1.20 .90 .75 .50 .45 .35 .30 .25 .20 .15 .15	\$1.35 1.00 .80 .55 .50 .40 .35 .30 .25 .20 .20	\$2.45 1.65 1.05 85 .65 .35 .30 .20 .18 .15 .12 .09	\$2.90 1.85 1.20 1.00 .80 .70 .50 .40 .23 .20 .10 .10 .10	#3.10 2.00 1.31 1.22 1.00 9.77 .66 3.3 3.3 2.2 2.2 1.1

WIRES & CABLES LEAD COVERED & PARK CABLE

	Si	ze		LE	A	U	D	B		F	t	U	E	3	В	I		R	C	()	V	1	R	ı		D					n	in	ct	or			
No.	16	Price	Per	Foot																						G				ol O	ij	4		Si	\$.O	5	
No.	12	44	66	45											9						•				-					0		6				.0	63	á
No.	10	66	66	48	0	0 1									0		• •				•	0 1								01 01		4				.0		
No.	8	66	66	66		•				•											•					•	•			1		-				.1	ĭ	
No.	6	48	44	66																										1						.1	7	
No.	4	66	66	66																																. 2	0	
No.	3	44	44	64																						-		4	-		• •					.3	14	
No.	1	48	66	68					-	-															-			-	-							.0	is.	
No.	1/0	48	48	46																									-		-					.4	ŏ	
No.	2/0	44	44	48		-			-																	_	-									.4	4	
No.	3/0	86	66	**															 																		2	
No.	4/0	-	100	-				 											 					 												. 6	JO.	

LEAD & RUBBER COVERED—Continued 250,000 C. M. Cable. .75 300,000 C. M. " .85 350,000 C. M. " .95 400,000 C. M. " 1.05 500,000 C. M. " 1.25 600,000 C. M. " 1.75 700,000 C. M. " 1.75 750,000 C. M. " 1.82 800,000 C. M. " 1.93 900,000 C. M. " 2.12 1,000,000 C. M. " 2.12 1,000,000 C. M. " 2.28	No. 4 " " "
NoTE: Above prices are based on following quantities: No. 16 to No. 8 Less than 100 ft. No. 6 and larger less than 50 ft.	STEEL TAPED PARK CABLE 600 V. only Size 1 Cond. 2 Cond. 3 Cond. No. 12 Solid. \$1.15 \$.22 \$.33 No. 10 " 18 25 \$.37 No. 8 .20 28 43 No. 6 Stranded 27 38 53 No. 4 " 27 38 53 No. 4 " 32 46 71 NOTE: Above prices are based on quantities of 100 to 249 feet—Prices of smaller quantities are higher. Prices on Park Cable above 600 V. are higher.

A Word to the User

The original compilation of the foregoing prices represents almost three years of research and study by pricing experts. In the selection of the thousands of items to be priced, and the assignment of the resale prices that would be generally applicable, they were aided by an intimate knowledge of the contracting business, as well as the co-operation of jobbers located in all the important jobbing centers of the country.

Before publication of these prices as you find them in this issue, which prices, by the way, will be completely revised each month as changing conditions demand, they were put to actual test in various parts of the country and their practicability as a convenient, generally effective pricing system for the contractor proven beyond a doubt.

Nevertheless, all should understand that this is a universal pricing guide for use in all sections of the country. It must, therefore, cover average conditions. Furthermore, it is a system to be used by all contractors—those operating with low, medium and high overhead costs. These variables are all taken into consideration and the prices will be found in line generally with conditions surrounding the average contracting business wherever located. In handling the variables, an effort has been made to lean more toward a larger profit for the contractor than toward the other extreme. Any contractor, in any part of the country, even with a high overhead, may safely feel that he is going to derive some profit through the use of the system, and, of course, those operating under more favorable conditions will derive a considerably higher profit.

When all is said and done, however, this, or any other universal pricing system cannot take the place of common sense. Where conditions are peculiar, a contractor may find that some variance from these average prices is necessary, but even in that case, the system here placed at his disposal represents a working basis to which he may apply such factors as meet his particular requirements.

Chrysler Uses Wheeler Lighting







WHEELER DUREX for general lighting



WHEELER ISOLUX for side lighting

T IS only natural that Chrysler engineers, famous for their production efficiency, should standardize on Wheeler lighting equipment. They knew it to be scientifically correct; they realized the saving it would allow them in installation and maintenance costs; and they appreciated the advanced patented features which only Wheeler offers, and which characterizes the continued modern lighting developments bearing the Wheeler name. Your plant too, can know the advantages of the best in illumination, if Wheeler-equipped. A representative from our nearest office will gladly go over the matter with you, without obligation.

"Wheeler lighting is scientifically correct"

WHEELER REELECTOR CO.

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New York

Atlanta

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Sales Offices: St. Louis, Indianapolis, Los Angeles, San Francisco, Seattle In Canada: Canadian General Electric Co., Limited

RATTAN SLIP-IN CONNECTOR



with the
SNAP-IN SPRING
"It Stays Put"

Use the Coupon for Sample and Catalog

THE RATTAN MANUFACTURING CO.

New Haven, Conn.



ADDITIONAL
PROTECTION
with
RITTENHOUSE
TYPE H and HP
Transformers

These types are of 25 Watt capacity with 110 volt primary and 8 volt secondary.

The transformer and porcelain cutout are mounted in a small metal box of standard gauge.

This arrangement makes possible the fusing of the transformer, definitely safeguarding the user against accident. Type H furnished with double pole cutout. Type HP furnished with single pole cutout.

A. E. RITTENHOUSE CO. HONEOYE FALLS, N. Y.



CLIFDUCT
working smoother
and easier than ever



THE RACEWAY OF PROGRESS

CLIFTON

Cuts Cleaner Threads Easier

General Sales Agents

HATHEWAY & COMPANY INC

225 Varick Street

A general sales organization—Representing nationally:

The Rattan Manufacturing Co.

A. E. Rittenhouse Co.

Gentlemen:
Please send complete information
Street

On complanies

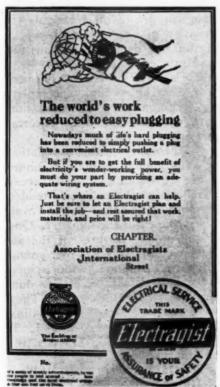
Street

To Test Appliances for Quality

An appliance testing project for the purpose of determining the quality of electric appliances is being undertaken by the Electrical Testing Laboratories of New York under the auspices of the Association of Edison Illuminating Com-

No approval or approval label service is contemplated at present. Nor are formal specifications contemplated, in the earlier stages of the movement at least. The intent is to seek facts first and to develop later the most constructive applications of such facts.

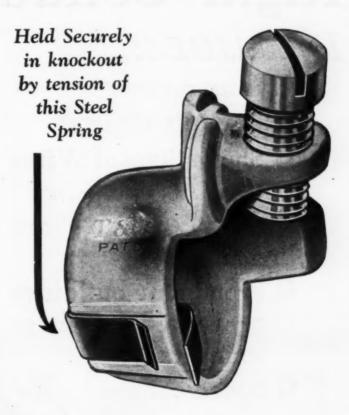
The method to be employed consists essentially in: Surveys of qualities and performance characteristics of electrical equipment; constructive application, as may prove practicable, of the facts revealed by such surveys; communication of results to central station companies; ultimately, grading of brands as to qualities and performance for the guidance of the industry.



ELECTRAGIST ADVERTISING: The series of advertisements which have been appearing in the Baltimore, Md., papers featuring the "Electragist" idea, have been reproduced by the A. E. I. in booklet form. Electros are available to all local chapters which contemplate such a program.

The NEW SPRING TYPE SNAP IN

3/8" Box Connector



ESIGNED for connecting No. 14W2, 14W3 and 14-C, 14-P Cord with the following advantages: Makes a Perfect Ground. Cannot fall out. Comes assembled and ready to

Saves Time and Money.

Send for Sample, prices and our Complete Catalog on Steel City Fittings



STEEL CITY ELECTRIC CO. PITTSBURGH, PA.



=FREE=

To Contractors A New Booklet on Rigid Conduit

INCLUDES:

- **Q** Illustrations
- Q Conduit Charts
- Q Shows Sizes of Wires
- Q How "GALVADUCT" and "LORICATED" are made.
- Q Prominent buildings protected by these conduits.
- Q Specifications

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Please Send a Copy of "PROTECTION AND SERVICE FOR OVER 30 YEARS"

To Mr.	
Firm Name	
Address	
City	State

Improper Wiring Brings Fine

An electrician of Paterson, N. J., was fined \$20 in the Recorder's Court on February 14 for improperly installing electrical fixtures in a house. Chief Electrical Inspector Ward prosecuted the case.

Chicago Contractors Adopt Credit Plan

At the last regular meeting of the Electrical Contractors' Association of Chicago the Detroit Credit



William McGuineas, President Electrical Contractors' Association of Chicago.

Plan was adopted. James E. Vaughan, Jr., of the National Association of Credit Men, is working out the details of putting the plan into effect in Chicago.

The association is now 100 percent Electragists and is completing arrangements for affiliation with the Association of Electragists as a chapter.

On February 9 the association gave its annual installation dinner dance at which practically every member of the association attended together with the guests from every branch of the industry. One of the unique features of the attendance was all of the young ladies who have served the association as assistant secretaries during the past eighteen years. They were namely: Mrs. J. W. Collins, Mrs. Albert Meyer, Mrs. J. T. O'Brien and Miss E. O'Kelly, the present assistant.

The 1929 officers are: William McGuineas, president; J. W. Collins, secretary; J. O. Kelso, treasurer; O. F. Burnett, assistant treasurer; T. J. Costello, R. F. McMillan, J. N. Pierce and W. A. Jackson, members of the executive committee.

IIM

"USE A KONDU, INSTEAD OF A THREAD"

What the Newer Knowledge of Wiring has shown—

The Economy of the One Threadless Fitting that can be Taken Out of the Line Alone

Watch a line of conduit being put in with KONDU Threadless Fittings, and you understand at once why modern wiring experts, one after another, have adopted KONDU as standard.

Note how easily KONDU goes anywhere—slipping over the ends of bent conduit as easily as straight— close to corners, girders, and partitions, as easily as in the open.

Three or four turns of the lock-nuts, and KONDU is in to stay put. Vibration can't shake it loose. Accidents can't break these fittings, which are malleable iron.

The easiest fittings to change
When you have alterations or additions to

make, KONDU fittings can be taken from the line as easily as they are put in—without disturbing any other part of the system. Did you ever see any other fitting that will do this? Neither did we.

And of course there's no time spent threading pipe—no unions to turn into the pipe after a bend. Kondu made all that unnecessary 3 years ago!

Write for the KONDU Catalog, showing the complete line of threadless fittings for every standard electrical requirement.

ERIE MALLEABLE IRON COMPANY Kondu Division Erie, Pa.



FIRST IN THE FIELD OF THREADLESS FITTINGS KONDU

CAN BE TAKEN OUT OF THE LINE ANYWHERE, AT ANY TIME



"No more dead motors around here, Jack"

"A MIGHTY handy little Kit." That's what motor repairmen say about the Ohio Carbon Kit No. 35. And no wonder—this kit will service over 300 different types of single phase motors, such as Westinghouse, C. E. Wagner, Century, Peerless, etc. Each type of brush is numbered and in separate compartments for immediate identification. By the aid of the chart one can quickly find the right brush for any job.

Send for this valuable kit direct, or order through your usual jobber.

Ohio Carbon Kit No. 35 Price \$25.00

THE OHIO CARBON CO. 8217 Almira Avenue CLEVELAND, OHIO

West of the Rockies: 1066 Howard St., San Francisco, Calif.



Boston Contractors Hear Credit Plan

Electrical contractor members of the Metropolitan Electrical League of Boston met on February 14 to learn about the Detroit Credit Plan. The elements of the plan were discussed by E. G. Jay, manager of the league. A number of the Boston contractors are impressed with the Detroit Credit Plan as offering a solution to their problems and there seems to be every reason to believe that the plan will undoubtedly be tried out in that city within the near future.

May Regulate Unapproved Equipment

Electrical contractors of Olympia, Wash., are reported to be seeking legislation from the city commission regulating the sale of unapproved appliances and materials.

The contractors met on January 14 to hear H. A. Patten, of Seattle, chief electrical inspector for the State rating bureau, explain the changes in the new 1928 National Electrical Code.

Indianapolis Visits Louisville

On February 18, members of the Electric League of Indianapolis were guests of the Louisville Electric League, the entire day and evening being spent in a get-together session that was heartily enjoyed by all concerned.

Leaving Indianapolis at 7:00 A. M., the Indiana boys went to Louisville by bus. They were met by a police escort and conducted to the Kentucky Hotel. In the luncheon room they were met by Mayor William B. Harrison of Louisville and the directors of the Louisville Real Estate Board.

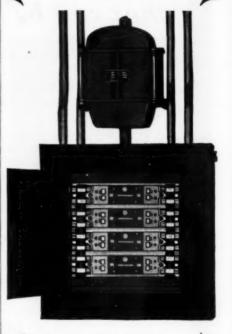
During the luncheon the assemblage was entertained by Henry Schilling's orchestra, with Ed Bingham of the Indianapolis League and other soloists singing several numbers. Naturally, "On the Banks of the Wabash" and "My Old Kentucky Home" were included in compliment to both hosts and guests.

Addresses were made by Roy

New Code SORGEL Air Cooled Transformers

With Conduit Connections

No Other Fittings Required



Made in sizes ¼ to 50 KVA. Single phase, two phase and three phase

110-220-440 and 550 Volt

Meet all requirements of the New National Code

Can be Installed Easily, Quickly, Economically

and conveniently most anywhere inside of buildings. No fire-proof vaults are necessary. SORGEL Transformers are air-cooled—

No oil to worry about

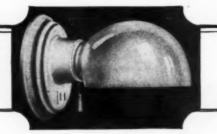
TRANSFORMERS
DESIGNED FOR
SPECIAL
APPLICATIONS

Send for descriptive literature

Sorgel Electric Co.

Clybourn & W. Water St. Milwaukee, Wis.





GUTH AGLITES

- a Type for Every Place and Purpose

Aglite is the ideal Lighting Fixture for Bedrooms, Bathrooms, Dressing Rooms and similar locations. It is permanently clean and sanitary. Its white or old ivory porcelain finish, baked on n three coats at a temperature of 1600 degrees, never peels nor discolors. It slaus new.

No exposed metal; nothing to collect dust. All insulated parts concealed in the base. Many of the largest hotels and public buildings in the country have installed Aglites throughout. There is an unlimited market for these practical Fixtures. Dealers will find them preferred for quantity equipment orders.

A special folder describing and pricing the Guth Aglite will be sent on request.

The EDWIN F. GUTH COMPANY

2615 Washington Ave. St. Louis, Mo.

MAKERS OF THE WORLD-FAMOUS BRASCOLITE

Beating Competition with Brains

Competition is tough in the electrical contracting business these days; and every day it gets worse. Successful contractors have found they can beat fly-by-night competition best by using their brains, and by educating their responsible employes. You can help your head men to keep abreast of the times and save you money by sending each his own copy of ELECTRICAL CONTRACTING.

Thurman, president of the Indianapolis Electric League, and Ted C. Brown, secretary-manager. Following the luncheon the visitors were taken to inspect the new 80,000 KW Ohio Falls Hydro Station of the Louisville Hydro-Electric Co.

Returning to the hotel, the party got its second wind and repaired to the Pendennis Club for dinner. When that was over they attended the first Home Show ever held in Louisville. Leaving at 8:00 p. m., they arrived at Indianapolis at midnight.

Estimating Floodlighting

In the article by E. W. Wheeler in the February issue entitled "Rule of Thumb Method for Estimating Floodlighting," Example 1 on page 12 stated the district to be "brightly lighted." This was an error. It should have read "medium lighted district." Using the values for the latter condition the problem will work out as calculated.

No State Licensing for Montana

A bill providing for a State board of examiners for electrical contractors and licensing of electrical contractors of the State was killed by the Montana legislature in January.



SPECIALIZES IN POWER WORK:

—W. J. Squire, head of Squire Electric Co., Kansas City, Mo., makes a specialty of large industrial and power installations. His firm recently moved into larger quarters in the same building. This fine sub-station serves the Chevrolet and Fisher Body plants in Kansas City, Mo., jointly. It transforms a current of 13,200 volts to 440 volts, 3-phase, 60 cycles, which is carried underground to the buildings. There are six transformers, three 500-KW and three 200-KW. a total of 2100 KW.

for economy, efficiency and endurance,

BENCO



The Metal Mada Meallerproof

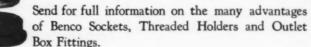
For industrial or any other heavy duty use. Millions of Benco Sockets have been installed in every conceivable place where the endurance which defies the hardest kind of service is required. Where ordinary equipment would speedily break down, Benco Sockets will give unfailing service for years.



Heavy Metal Case Rugged Porcelain Insulation Convenient Assembly



In addition to their rugged strength, the convenience with which Benco Holders for shades and reflectors may be attached make Bencos the most popular general purpose sockets ever devised.



"Benco" Threaded Holders



Benco Type S Holders provide an easy means for attaching

shades or reflectors to Benco Sockets and Outlet Box Fittings. Benjamin Porcelain Enameled Steel Reflectors are also furnished with "built in" Type S

holders for convenient attachment to Benco



Benjamin Electric Mig. Co.

120-128 So. Sangamon Street

New York

Chicago

San Francisco

Do the JOB with



REFLECTORS

Is it a Factory?

Satisfaction to your customer means that you must deliver light for safety and large production at low maintenance cost. You want to get the job done quickly, neatly, and make money on it. You will make good on all points if you—



-- or a Bank?

uracy in counting and figuring demands first, ndant soft light. Neat appearance is a close oid. This bank reflector, over every teller's dow and bookkeeper's deak satisfies both dedds. On the next job you sell,

Use This



-- or an Art Store?

Schools, museums, fine homes, department stores, all find uses for this picture light. It spreads a wide, soft glow that gives efficient reflection while making the whole picture, advertisement or display attractive. When you get such a job,



Send For Catalog

Full of selling ideas—every page suggests a place where you could dispose of OAMCO reflectors at profit. No charge; yours for the asking. Pull a postcard out of your desk and write your name and address on one side and on the other side,

USE THIS OVERBAGH & AYRES MFG. CO.

413 So. Clinton St., Chicago, Ill.

Addresses Cincinnati Contractors

A large meeting of Cincinnati electrical contractors was held at the Hotel Gibson on February 15 to hear John Kuhlemeyer discuss "Overhead and Profit Analysis."

The Cincinnati contractors have for some time been discussing the possibilities of making an effective and working organization out of their local association.

Results of Detroit Credit Plan

Number of licensed electrical contractors in Detroit:

> August 1, 1026 850 August 1, 1927 740 August 1, 1928 481

February 1, 1929 374

Only 2 of these were on the permanent cash basis.

To Help Contractors Organize

The house wiring contractors of Toledo, Ohio, have been offered the facilities of the Electrical League to help them start an organization. With the offer of help went the following statement:

"It is pretty generally admitted that the house wiremen did not participate in the general prosperity that prevailed during 1928. This is a curious fact when you stop to think of it.

"Here is a body of men connected with one of the three livest industries in the country, whose product is in constant and ever-increasing demand, and yet who failed to make money in a year when nearly every business was prospering.

"The current year promises even greater returns to business men, but electrical contractors are likely to see a repetition of 1928 unless they take steps to remedy prevailing conditions.

"That conditions can be rem-

RALCO

Heavy Duty Receptacles

Like all Ralco Receptacles and Plugs, the switch blade type are built for service and safety.

Contacts are self-aligning, easily replaced and of ample size to carry their rated load.

So constructed that all strain is taken off of contacts, insulators and binding screws.



Note—Now available in 2, 3, or 4 pole, 30 or 60 amp., 250 or 600 volts, with or without self-closing cover and with ground wire terminal.

May We Send Bulletin No. 101?

Ralco ∞ Mfg. Co.

edied, there is no doubt. We know 125 N. Albany Ave., Chicago

\$50,000 Volume \$5,000 *NET* Profit

No, this is not impossible. Many contractors are making very satisfactory profits, after drawing good salaries, because they do all their pricing and quoting from the NATIONAL ELECTRICAL RESALE PRICE SERVICE.

May we suggest you write and ask us to mail you full particulars? There will be no obligation, and no high pressure salesmanship will be used either, but so that we may know that you are a legitimate contractor and entitled to this information, we ask that you kindly attach your letter-head to the coupon below.

Henderson-Hazel Corporation

5005 Euclid Avenue CLEVELAND, OHIO

Originators and Publishers of the

National Electrical
Resale
Price
Service

Save time and labor Use MISENER products

Misener Rotary Hack Saw

Cuts clean round holes in terminal and junction boxes, slate and marble panels, and automatic starters for entering conduit.



Computes

Misener Safety Conduit Seals

These little discs of heavily waxed fibrous stock keep the exposed conduit hairtight and water, dirt and cement proof.

They are slipped into the conduit bushing while the building is under construction and easily destroyed with a screw diver or knife when ready to fish the wire—not necessary to remove the bushing.

SEALS are inexpensive plugged up conduits are costly.

> Tools, Blades and Seals Patented

Misener & Irving Mfg. Co., Inc.

Syracuse, N. Y., U. S. A.

For Business or the Home The New Sevolier Link Switch

Here is a convenient and economical little 6-ampere link switch that is for both business and home chain lighting fixtures. Fits in place of one of the links and is hardly noticeable. Easily installed by cutting one wire and attaching both ends to binding posts of switch, doing away with splicing or rewiring of lead wires.

Consists of Levolier Fixture Switch, Levolier Link, and locking attachment. Brushed brass or Jap bronze finishes. Will take the surge of s. aching even a cold 500-watt gas-filled Mazda lamp and will last indefinitely.

Your jobber can supply you or let us send you a sample

Secoliar Manufacturing Co.

Manufacturing

how it can be done, and we are offering the good offices of the League to help the contractors find the way to help themselves."

Milwaukee Raising Modernizing Fund

Over one quarter of the \$2,000 budget for the electrical part of the home modernizing program of Milwaukee has been raised.

Considerable modernizing is now under way in Milwaukee. One old home has just been remodeled into a duplex and made a Red Seal job with three No. 2 wires for service.

Newark to Operate Credit Plan

The Detroit Credit Plan is expected to go into operation in Newark, N. J., within the next two months, under the sponsorship of the Electrical Contractors Association of Essex County. The contractors have appointed F. Rossitier as their representative. Meetings have been held with the jobbers and everything is about ready to start.



George E. Davis, New President Newark Association

The association is also sponsoring a bill before the state legislature, covering the licensing of electrical contractors.

At the last meeting of the association the following officers were elected for the ensuing year: George E. Davis, president; Wil-

The Koppers Building— A Pittsburgh Tribute to Youngstown Buckeye Conduit





S AMERICA'S architectural A masterpieces are reared skyward in ever increasing numbers, an overwhelming number will be found with their electrical wiring protected by Youngstown Buckeye Conduit.

Leading architects and engineers have repeatedly found through wide experience that when they entrust a building's electrical wiring to this rigid steel conduit they are assuring permanent protection to the electrical installation.

Youngstown Buckeye Conduit has earned the trust and confidence of electrical engineers and contractors through its proved performance in thousands of installations, while electricians prefer it because of its ease of installation.

The Koppers Bldg., Pittsburgh, Pa., wired in Youngstown Buckeye Conduit to assure lifetime permanence.

Architects: Graham., Anderson, Probst and White—Associated Architect: E. P. Mellon General Contractors: Mellon-Stuart Co. Electrical Contractor: Craig Electric Co.

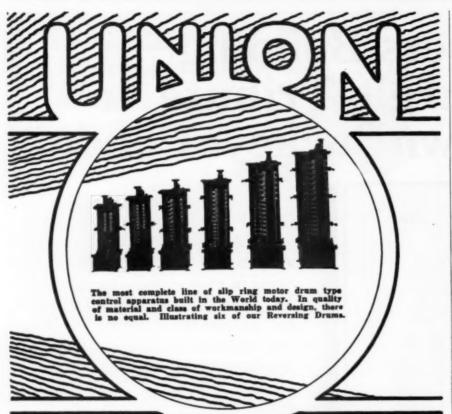
THE YOUNGSTOWN SHEET AND TUBE COMPANY

One of the oldest manufacturers of copper-hearing steel, under the well-known and e General Offices: YOUNGSTOWN, OHIO

ATLANTA—Healey Bldg.
BOSTON—80 Federal St.
BUFFALO—Liberty Bank Bldg.
CHICAGO—Conway Bldg.
CINCINNATI—Union Trust Bldg.
CLEVELAND—Union Trust Bldg.
DALLAS—Magnolia Bldg.

To be the state of the state of

UNGSTOW



UNION ELECTRIC MANUFACTURING CO.
MILWAUKEE, WISCONSIN
Associated Manufacturer with, and Eastern Distributor for

DIAMOND & ELECTRICAL MFG. CO., LOS ANGELES, CAL.



liam Shaw, vice president; C. H. Butler, treasurer, and E. C. Butler, secretary; executive committee, F. Rossitier, S. Beach, J. Buhl and E. Wilson.

Kirchner Heads Washington League

Joseph T. Kirchner of Biggs and Kirchner, electrical contractors, has been elected president of the Electrical League of Washington, D. C., for 1929. The Washington League stands third to California and Detroit in total applications and awards for Red Seal. This activity will be continued during the year and in addition, Mr. Kirchner states, the league will make every effort to improve the situation in the contracting industry.

To Go Back to 1925 Grounding

The grounding requirements in the 1925 code will be used as the basis for the next revision according to a resolution passed at the February 19 meeting of the Electrical Committee of the National Fire Protection Association. In addition to routine business various minor amendments to articles 4, 5, 6, 15 and 37 were approved. The action taken with respect to provisions for grounding called for a correlating committee which it is expected will meet in New York City on or about March 25. The resolution covering this action was as follows:

"MOVED: That the report of Article IX committee be laid upon the table.

"That a correlating committee be appointed consisting of the chairman of the article committees, all members of Article IX committee, together with the chairmen of the electrical committee and the electrical field engineer, ex-officio, to act as chairman and secretary respectively of the correlating committee.

"That the correlating committee be instructed to formulate Article IX and any conflicting articles for the Code, using in principle the 1925 Code and supplement with such revisions and additions taken from the 1928 Code, and articles in the 1929 preprint numbered 901, 902, 903, 906 and 907 as the correlating committee by unanimous vote of those present shall determine as necessary or desirable or non-controversial.

"That the correlating committee shall act with power for the electrical committee in this matter."

No second "dips" with VARNISHES G-E soldering paste

OILS

PAINTS

FIBERS

TWINES

COMPOUNDS

TAPES

CORDS

SHELLACS

CLOTHS

TUBING

PAPERS



No second "dips" are necessary with G-E soldering paste. It takes hold the first time. It works thoroughly and fast. You use less, yet the results are better. G-E soldering paste can be used for any metal except aluminum. It resists corrosion and is uniformly dependable.

For tinning, electrical repair and construction work, and for a multitude of other contracting jobs, there is no better soldering paste than that manufactured by General Electric. Moreover, contractors will find it as easy to sell as to apply.

Better look into the matter further; you can do it without obligating yourself. When you have filled out and mailed the coupon just below, you will receive a complete catalog of G-E insulating materials, many of which are equally valuable to the contractor who uses and sells only products of recognized quality.

800-502

GENERAL ELECTRIC

Section I-223,

Merchandise Department,

General Electric Company,

Bridgeport, Conn.

Gentlemen:

Kindly send me a copy of the G-E Insulating Materials Catalog.

9

Jobs where you can install

SAUTER

Electric Time Switches

- 1. Show windows
- 2. Flood lighting
- 3. Burglar alarms
- 4. Electric signs
- 5. Battery charging
- 6. Ventilating systems
- 7. Street lighting
- 8. Industrial plants
- 9. Airway beacons and Airports

THE satisfaction to yourself in installing a workmanlike, satisfaction-giving job—the kind that eliminates those return trouble calls that eat into profits—is yours when Sauter Switches are put in control of the circuit.

Whenever switching must be performed automatically on a dependable schedule, it is best to choose the time switch whose proven performance has always resulted in the lowest cost-per-operation. The manner of Sauter manufacture assures this.

Send for catalog to

R. W. CRAMER & CO., Inc. 136 Liberty St. New York City

-Astronomic Dials-

Sauter Time Switches are 14 to 40 day, key wound, or self wound by universal motor—they control currents from 2 to 300 amp., operating on voltages from 6 to 8000. They are equipped with plain or astronomic dial. The new astronomic dial operates in step with sunset and sunrise or with midnight "off" operation throughout the year.

SAUTER—ITIME SWITCHES

Consumer Red Seal Publication

The Electric Service League of Toronto, Canada, is now publishing the "Red Seal Electric Home," a consumer publication for distribution to Red Seal and other homes. This is expected not only to further the Red Seal idea but also to develop the appliance demand.

A list of the manufacturer, jobber and contractor-dealer members of the league will be carried in this publication.

Four Hundred Price Changes

There were four hundred changes in price made in Resale Price Service in this month's issue of Electrical Contracting. Readers are, therefore, urged always to use the latest issue.

Binghamton Contractors Organized

The house wiring contractors of Binghamton, N. Y., have been organized as a group of the local electrical league. During the latter part of January and the first of February they received an intensive training in estimating, pricing and over-head control from John Kuhlemeyer.

The Binghamton league has been thoroughly reorganized and has many progressive activities in mind. One of the important actions is the change in the local ordinance as of March 1, providing for more adequate services for houses as an encouragement for electric ranges and other large current consuming appliances.

Red Seal on the Air in Indianapolis

The Red Seal hour is broadcasted from station WFBM of Indianapolis every Saturday night. This hour has been donated to the Indianapolis Electrical League for this purpose by the Indianapolis Power & Light Company which owns the station. In addition to this hour, Ted Brown, manager of

Once there were two Traveling Salesmen and...

THE ADAPTI Representative said, "I'll bet you can't figure out any conduit combination that can't be done with

ADAPTILETS

(Standard Solid Fittings)







and with

ADAPTIBEXES

(Flexible Rigid Fittings)"





and he won, too.
WHY NOT GET ALL YOUR
FITTINGS FROM ONE
SOURCE—

The ADAPIT Co.

2996 E. 72nd St., Cleveland, O.

NEW YORK CITY A. Stone, 112 East 23rd St.

PHILADELPHIA
Craven Electric Sales Co.,
30 Bank Street

SOUTH BOSTON

The Hastings Electric Sales Co., 42-50 Binford Street the league, talks on Red Seal for five minutes every Wednesday night.

The Red Seal specifications have been placed in the hands of vocational students in the Technical High School in Indianapolis. There was considerable resistance to this on account of the sentiment created against so-called propaganda among pupils. The league finally won out and secured the cooperation of H. F. Markus, electrical instructor at the school.

There are 300 electrical students and 67 of them are taking the house-wiring course. Getting the Red Seal idea over to these boys means that the message will be carried into their homes and consequently into those of their friends and neighbors.

Youngstown League Election

Lloyd Robinson, manager of the Youngstown Electragists, was elected a member of the board of directors of the Electrical League of Youngstown at its annual meeting. The other members are W. A. Maloney, T. E. Miller, H. D. Sommer, E. D. Sutton, A. N. Thomas and E. J. Beil.

The newly elected board, at its election on February 5, elected the following officers to serve during the ensuing year: President, H. D. Sommer, The Moock Electric Supply Co.: vice president, A. N. Thomas, Westinghouse Electric & Mfg. Co.; secretary-treasurer, E. J. Beil.

To Prepare Enabling Act Standards

At the annual state meeting of the Michigan Association of Electrical Inspectors which was held at the Hotel Pantlind in Grand Rapids, February 16, H. B. Kirkland, director of the uniform ordinance department of the Society for Electrical Development, announced that his committee had authorized the preparation of standards for state enabling acts governing local licensing.

L. W. Davis of the Association of Electragists, International, was the principal speaker, his topic being "The Relationship of the Electrical Inspector to the Contractor."

New! Improved! NATIONAL



FLOOD LIGHT with Many New Features!

The New, Quickly Detachable Hinged Cover makes cleaning and relamping easily accessible.

The focusing adjustment is of improved design, and assures a powerful concentrated Flood of Light where desired.

THOROUGHLY WATERPROOF—of rugged construction, compact and of good appearance—the National everlasting reflector insures efficient light and permanency.

Adjusted to the use of either 250 or 400 watt type G-30 lamps.

Furnished complete with ten-foot all-weather rubbercovered cord and molded plug. Equipped with all position mounting bracket.

Write for descriptive literature

National Appliance Co., Inc. Jackson, Mich.

MULTI

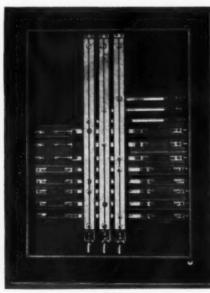




Porcelain and Slate Cutouts

Well made. Best materials. Wide selection. Individually packed. Send for catalog sheet.

MULTI ELECTRICAL MFG. CO. 1840 W. 14th St., CHICAGO, ILL.





Space is provided for future circuits which may be ordered from our factory as soon as their sizes are definitely decided upon.

Progressive Contractors Use Convertible Distribution Panels

These panels permit an electrical contractor to alter the ampere capacity of the individual circuits from 10 amperes to 200 amperes according to load requirements. The only tool required is a screw driver.

They cost no more than the now old fashioned slate panels.

Send for literature and prices.

THE LEXINGTON ELECTRIC PRODUCTS CO., Inc.

207 E. 48rd Street
New York, N. Y.

12 Chapel Street
Newark, N. J.

PANEL BOARDS-STEEL CABINETS-SWITCHBOARDS-SWITCHES



THE ONLY CONTRACTOR IN HIS TOWN:—R. C. Wright, proprietor of Wright Service, La Grange, Wyo., drives to Denver quite often, and we snapped him in front of the General Electric Supply Corp., of that city, during one of his visits. Being the only contractor in town, he does all classes of work, including much electrical welding. Residence wiring is one of his best bets.

All-Conduit Ordinance Sought

The city council of Fort Collins, Colo., has been asked to amend the local wiring ordinance to eliminate knob-and-tube wiring and to require that all wiring be in conduit except that armored cable would be used for concealed work in finished buildings and open wiring for temporary work.

Provision is also made in the proposed ordinance for prohibiting a licensed contractor from permitting anyone not on his payroll to do work for which he shall have taken out a license. This is aimed at those contractors who permit their names to be used by unlicensed contractors in taking out permits.

Cincinnati on 1928 Code

The 1928 National Electrical Code was scheduled to be enforced in Cincinnati and vicinity on March 1. In anticipation of operation under the new Code, the Cincinnati Electric Club conducted two meetings, one on February 6 and the other on February 7, covering the changes over the previ-

ous Code. The first meeting was addressed by F. O. Evertz, superintendent of the electrical department of the Ohio Inspection Bureau, and A. Penn Denton, engineer director, armored cable and flexible metallic conduit section of N. E. M. A. and former chairman of Article 5 Committee.

The second meeting was addressed by Victor H. Tousley, electrical field engineer of the N. F. P. A. and secretary of the National Association of Electrical Inspectors, and M. G. Lloyd, chief of the section of safety engineering of the Bureau of Standards.

Central Station Relations

Statement by Earl N. Peak, Chairman of A. E. I. Committee on Relations with Central Stations; President of Iowa Associations of Electragists, and Chairman of Iowa Joint Conference Committee of Electragists, Jobbers and Central Stations.

HAVE been elected to the chairmanship of the A. E. I. Committee on Relations with Central Stations and the N. E. L. A. With this responsibility comes an un-



Earl N. Peak

usual amount of unrest in some localities between contractor-dealers and central stations.

I am an electrical contractordealer and have given twenty-five years of my life to the electrical industry, and have served in all of its branches. I have not at any

Sell Convenience and Economy in Lighting



With the Levolier

Heavy Duty Fixture Switch

Sell the idea of greater convenience and economy in the use of higher-wattage lamps in industrial plants and commercial institutions by installing the Levolier Fixture Switch in outlet box, canopy or ceiling pan and controlling each unit individually. The tendency toward bigger lamps is spreading fast, creating a big market for increasing sales of Levolier Fixture Switches.

Rebuilt, of heavier section, eliminating possibility of breakdown. With a rating of only 6 amperes, this switch will take the initial 45-ampere smash of switching a cold 500-watt gas-filled lamp.

Easy to install. Skin and loop one leg of circuit and attach the two ends to the terminals of the switch.

Get them from your jobber or let us send a sample





What does Conduo Base

mean to the Electrical Contractor

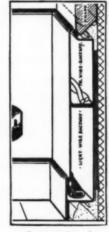
B UILDING Owners and Managers, Architects and Engineers, Tenants in office buildings, even Home Owners are demanding such flexibility of distribution of electric outlets as to be able to plug-in for Desk Lamps, Floor Lamps, Dictographs, Telephones, Buzzers and what not, at points most convenient to their furniture layouts.

Such flexibility of distribution of outlets for both High and Low Tension

Wiring is only feasible by installing electric branch wiring in C O N D U O-BASE, and unobtainable otherwise.

In a CONDUO-BASE equipped building Convenience-Outlets for any electric use can be had just where one wants in a jiffy.

Electric branch wiring in CON-DUO-BASE is the greatest forward step in electric wiring.



Cross section of Junior Conduo-Base

CONDUO-BASE IS THUS CREATING THOUSANDS OF DOL-LARS WORTH OF WORK FOR THE ELECTRICAL TRADE.

THIS INCREASE OF BUSINESS IS AT YOUR COMMAND IF YOU WILL LET US SHOW YOUR WIRING PROSPECTS THE CONVENIENCES AND ECONOMIES OF CONDUO-BASE.



Dahlstrom Metallic Door Co. Jamestown, N. Y.

The United Metal Products Co.'
Canton, Ohio

Knapp Brothers Mfg. Co. Chicago, Ill. time ever received one cent of compensation from any contractor-dealer's local, state or national organization, nor have I ever received one cent from any central station or central station organization. I do not have any stock in any central station, nor has any central station any stock in my organization. For these reasons, I feel I can speak freely on this subject.

I know something of the feelings which exist in some localities and the causes of such, and I believe that most of these misunderstandings and disagreements are due to lack of acquaintanceship, confidence and industry cooperation in action.

I am sold on a plan different from that which has been prominent in the past years, and know from actual experience that it has paid dividends and shown great results.

Not Destructive

It is not a destructive, tearingdown plan. It is just the reverse of this. It is a plan the purpose of which is to do something constructive for the industry, to build up good will between the different branches and the general public.

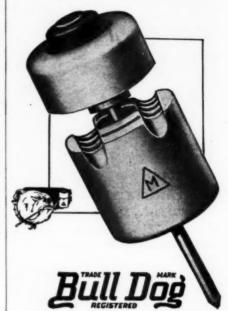
I know of no constructive program that has had as its beginning a destructive or detrimental policy for some branch of the industry of which it is a part.

Would such a program as follows appeal to you for your community or state?

A program in which all branches of the industry are interested and working together? Would you like to have your state officers on such friendly terms with the officers of the other branches that in case any misunderstandings arise, they will accompany you to the seat of the trouble and assist in correcting it?

Would you like to have your central stations help plan sales campaigns jointly with contractor-dealers, carrying advertising for them, furnishing solicitors and demonstrators, putting merchandise on contractor-dealer floors without any expense to the contractor-dealer? Furnish window trims and trimmers if you desire, with the understanding that mer-

"It has a grip like its namesake"



Split Knobs

THESE are the safe, approved knobs for all types of residence wiring. They mean better jobs at no added cost. Bull Dog Split Knobs, together with Illinois Porcelain Tubes, Cleats, Solid Knobs and Reversible Square Split Knobs, form a complete line of standard porcelain.

Sold Through Wholesalers.

Illinois Electric Porcelain Co. Macomb, Illinois chandise not sold may be returned without any expense, and that the merchandise sold may be financed, if the contractor-dealer wishes, with the contractor-dealer receiving the standard discount? If the contractor-dealer does not have a display floor, give him full privilege to take his customer to that of the central station and use it as if it were his own?

If a demonstration is desired, have one made by the central station with their own demonstrators or salesmen, and if the sale is made, the contractor-dealer be given the credit?

Would you like to have your central station or electrical jobber call and advise that they desire your help in the engineering work on a certain job, or better yet, hand you a nice contract to be installed, or advise you of a new town to which they are going to extend their lines, and ask your cooperation in construction of same? Send you information on street lighting systems and traffic signal installations?

Joint State Committee

Would you like to have a joint state committee, composed of executives of all branches, who act together in promoting good will and who assist in keeping each branch informed of help which may be rendered to assist the industry and help to encourage and build up better fellowship? A place where presidents, vice-presidents and general managers of all branches call each other by their first names, where dinners given by one group have officers from other branches as their guests, and where every meeting of any group welcomes members from another?

Does this seem to you something of a start toward what you would like to see in your locality and state? If so, you may have it. It's up to you.

Applesauce, I hear somebody say. I am ready to call your hand. You say it can't be done. All right, come and see me in my state and I'll prove it can be done and will show it to you in actual operation—not to the point of perfection, but so much better than it has ever been in the past twenty-five years that I can take you to



BEL SUN ELITE

Makes Every Store A Stage

Staging a display has taken the place of trimming a window in modern retailing. Live merchants realize that show windows must work harder during the hours when passers-by have the most time for looking—in the evening. The Bel-Sun-Lite window lights are stage lights adapted to store-window use. They fill the window with radiance that lets no detail go unobserved. They cast no strong shadows. They let no light fall directly into the eye outside. They increase sales for the store-keeper—and you. Who is the most alert merchant in your community? (Next to yourself, of course.) He is your best prospect.



Spotlight the Bargains

One article in every window, the leader, should stand out in especial brightness. This little Bel-Sun-Lite brings it out with blazing emphasis. Fitted with a color screen and used on a single item in an otherwise dark window, the effect is a knockout.

Ask Our Nearest Distributor

to supply you with full information about Bel-Sun-Lites, the line with the biggest future. If you can't find his name in the phone directory of one of these cities, write us.

Atlanta, Ga.
Boston, Mass.
Delaware, O.
Ft. Worth, Tex
Gary, Ind.

Indianapolis, Ind. Kansas City, Mo. Los Angeles, Calif. Louisville, Ky. Miami. Fla.

Minneapolis, Minn. New Orleans, La. Omaha, Neb. Philadelphia, Pa. St. Louis, Mo. San Antonio, Tex. San Francisco, Calif. Seattle, Wash. Tulsa, Okla. Tampa, Fla.

Belson Manufacturing Co.

804 Sibley St., Chicago, Ill.





PUSH-BUTTONS



You need push buttons on most every job—but, do you know just what design to select?

The Ansonia line includes push buttons for every conceivable need, will help you, and save time. You can obtain Ansonia Push buttons through any electrical jobber.

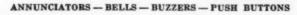
No. 507-Name Plate Push

0

Write for this 64-page catalog E which shows a complete line of Push buttons and other electrical house goods.

200

The Ansonia Electrical Co. ansonia. Conn.



ELECTRICAL HOUSE GOODS

all the old timers who have gone through the game and have had the experience of the past in three branches of the industry, and who will take off their coats and fight for the industry, for themselves and for the continuing of the plan.

Working together, playing together, calling each other by their first names are common practices, where in the past it was the reverse. "It can't be done," was what nearly everyone said, but a few who didn't know any better went out and did the job, and it has worked so well that the central stations, jobbers and contractor-dealers today are all working for a continuance of the plan.

May I ask one thing of you who are interested in this subject? Please sit down and think, with a mind free from malice, envy and hatred. Think of the desired business conditions and connections. Then ask yourself, "What have I

done to help?"

"Don't Use My Name"

Have you reported conditions in your own experience that you feel are unfair, in a manner that they could be proven? Or if you did report them, was there a string tying the hands of your Association whom you asked to handle the matter for you, something like this: "Don't use my name in any way. It might offend the person concerned and I might lose business"?

Such statements make my blood boil. If there is an unfair condition that is detrimental to your business, it is only just and right that it should be brought to the attention of the offenders and no one should fear to present and support his complaints. On the other hand, if one's business is suffering on account of a bad practice and it is permitted to continue, how long will it be before you will have no business at all? Why have a fear of losing further business if your claim is right and just? There is nothing to lose and everything to gain. Throw back your shoulders, meet the issue squarely and fairly, and you will be dealt with likewise.

Put on your hat, go out and call on your competitor, your central station manager. Arrange to visit the central station president. Plan to visit your supplier's place of business, and get acquainted with all the executives of all the branches. This is the first step in the right direction, and you will have made a big step toward your objective.

Then, by all means, back up your local, state and national organizations. Possibly the officers have not been your choice. They may not have obtained the results you desired, but what have you done? Have you given them your full assistance and your support? Have you kept up your membership? Does your record excel or check up with theirs?

Do not be like the calf that deserted its mother to follow the fine looking steer—it may look much better on the surface, but sooner or later meal-time will come. Think it over!

There was a time in this industry when it was thought that we must string barb wire as a static wire. It was believed that the desired results would not be obtained without the sharp barbs extending in all directions. This made it hard to handle or approach without being jabbed or scratched, or having one's clothing torn or something happen to keep those working with the installation in a very unpleasant frame of mind.

What happened to the barb wire as a static line? Engineers got together and found that a smooth conductor would do the same job as well, and later on, they found in many places that there was no need for a wire at all, and it was eliminated entirely.

Isn't it time to remove the barbed static wire from our industry relations?

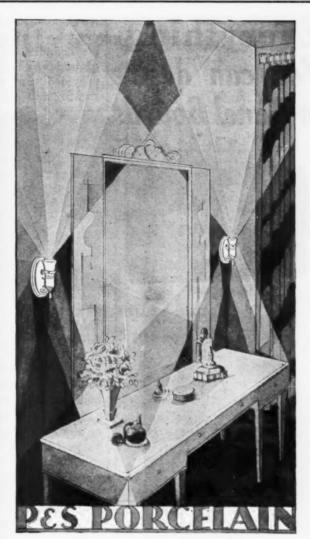
Elucidation of Grounding Rule

(Continued from page 24)

for other purposes may be either copper, metal pipe, or rigid electrical conduit. By the metallic underground piping system is meant the water, gas, steam, etc. The first mentioned is, of course, the one to be recommended.

Then, if the above cannot be followed and driven grounds have to be used, a separate grounding





In addition to their beauty of line, their colors, their cleanliness and ease of installation, upkeep costs are eliminated with P&S Alabax Fixtures. Made from nonconducting porcelain, they are designed to conform to the National Electric Code and are listed as standard by the Underwriters' Laboratories.

Lighting fixture prospects are now reading about the merits of P&S Alabax in our national advertising in leading magazines. Customers will want P&S Alabax fixtures; architects will specify them; and contractors are glad to use them. As easy to install as to sell, and there's a good profit in every sale!

SOLD THROUGH JOBBERS

Send for our complete catalogue showing the P&S Alabax line in full colors.

"P&S make labor less"

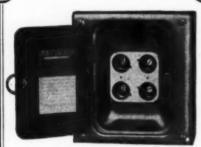
PASS & SEYMOUR, INC.

Division C Solvay Station Syracuse, N. Y.

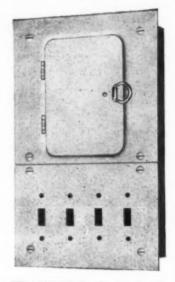


ALABAX LIGHTING FIXTURES

Everything-You can desire in Panel Boards



Cat No. BS 4



FUSITHERE Panel Boards are designed to facilitate installation in every possible way, as well as give the customer the best equipment for the purpose. Neat and compact, they have ample wire space. Flush boxes have adjustable plate. Panels are Copper bus bar type with accessible wire terminals, test holes and dead front. Various size knockouts on all sides and back.

Full line of fuse panels and cabinets for any installation.

Industrial and theater switchboards. Stage foot and border lights.

Your inquiries given our prompt attention

ELECTRIC APPARATUS CO.

702-706 N. HALSTED ST. CHICAGO, ILL.



wire and separate ground electrode must be used to ground the service conduit and another separate ground wire and electrode must be provided for the service cable sheath, and still another ground wire and electrode must be provided for the equipment.

In other words, where driven grounds are used, the same ground wire and earth electrode must not be used for grounding the service (or system) and for grounding the equipment.

On a D. C. system we are not concerned with grounding the neutral wire of the system as this is done at the supply station and not at the individual service. But otherwise, the same conditions hold and if the service enters the building through a conduit and has a metal (lead) sheath and the building is wired with a metallic clad system, separate ground wires and electrodes must be employed.

Let us hope that we can always, or almost always, find a water pipe so as to avoid these troublesome things!

It will be well to remember that the system grounding wire is not to be less than No. 8 as is also the wire used to ground the service conduit. The size of wire to use for grounding conduit, armored cable, etc., is given in Rule 905-K but it must be remembered that the grounding wire for fixtures is to be not less than No. 14.

Happiness Preferred

(Continued from page 16)

having paid out the same overhead, including gas or car fare, as if he had stayed all day on the job. So he is out several dollars in real money that cannot be made up.

Mr. Binder figured that a man is bound to be happier and take more interest in his work if he is kept busy and avoids the pay losses as outlined above. So his first step was to provide continuous work. This is done in several ways, chief among which are sending the man or men to a different job or sending them back to the shop to do something which has been saved for just such a rainy day.

To bring one big job after



Steel Tank Conduit Fittings are

shipped on the same day the order is received from warehouse stocks

located in principal jobbing centers.

CHICAGO STEEL TANK CO.

Electrical Division

6400 W. 66th St.

another to successful completion it is necessary to have the best of supervision all through. Mr. Binder's plan was to pick good foremen and then build them up to the point where they would go on a job and take the same interest in it that he felt himself. The result is that he has three foremen who are considered permanent. pays them the foreman's rate regardless of what they are doing for the moment, they draw forty-four hours a week and are paid for holidays to boot. He expects them to show unusual interest in their work and they do it cheerfully because there is no little worry in the back of the head about the pay check coming home with its tail bobbed.

Comfort of Men

Another point that received his attention early in the game is the comfort of the men on the job. Before work starts on a big installation, a 10 by 12 ft. frame shack is erected. A stove is provided if the season requires it, and there are shelves for all material; there is even a section for keeping blueprints. This shack gives the men a place to change their clothes, eat their lunches, make repairs, etc.

In order to get a first hand slant at the spirit created by this system, the interviewer decided to visit the three foremen at their respective assignments in Omaha. Art Cronemeyer was found at the Paxton Hotel addition, 14th and Farnam Sts.; Bill Ratliff was holding the fort at the new bus station, 16th and Jackson Sts., while A. C. Krell had just been sentenced to about three years on the Joslyn Memorial, 22nd and Dodge Sts.

The attitude and conduct of all three confirmed everything previously learned about their reaction to good treatment. Each was right on top of his work and going strong, with no apparent effort. Yet each was able to stop instantly and pose for a snap shot, when told that the boss's permission had been secured. In point of service, Krell and Cronemeyer are practically tied at near ten years; Bill Ratliff about four years.

A single instance will serve to

EXPECT GREAT THINGS

in the improved sectional type



They will measure up to your expectations

Inbuilt quality and superior design have always characterized Wurdack Panel Boards. But these improved sectional panels, with their many advanced features, set a new standard in panel board construction. Consider these outstanding features:

- All parts are removable from the front. Ready access is provided to switch mechanism and fuse connections. It is especially easy to replace copper shell or contactor screw when these become badly burned from short circuit or heavy overload.
- All new tumbler switches are rated 30 ampere, 250 volts and are heavy duty type, with mechanism and contact parts capable of most severe service. Single pole tumbler switches are equipped with Bakelite arc snuffers lengthening life and increasing breaking capacity. Blades are self aligning with contacts. The entire steel frame and switch mechanism is thoroughly rust-proofed.
- Entire back of sectional panel is covered with a continuous steel plate, which guards against injury during installation, and always keeps mechanism of switches free from dust and dirt.
- Panel is secured in cabinet by means of four special mounting studs, which permit adjustment both in-andout and laterally. The arrangement is such that adjustment can be made after panel is installed without the use of any special tools.
- All-steel fronts, of heavy guage sheet, are smooth and flat and carefully finished in genuine black lacquer.

 Easy to keep clean and neat in appearance.

Assure satisfaction to both your client and yourself by installing Wurdack Panel Boards on your next job. Investigate their merits . . . Write for latest catalog.



Fretz-Moon

No conduit receives more care in the making—none is more dependable.

Fretz-Moon Tube Co.

RIGID CONDUIT

prove Harry Binder's statement that the extra expense involved in taking care of the men comes back somewhere, sometime. Not so long ago, he was totally incapacitated for a period of eight long months. At first he could not help worrying and chafing a bit, but soon learned there was nothing to fear.

No less than five large buildings were wired by his men during his unfortunate illness, and there was not a single complaint! He even received many comments and congratulations on the loyalty of his force, from interested parties. He was told that his foremen used good judgment in settling things that came up, and that they were u n u s u a l l y accommodating and courteous.

This shows that the good work done by contented men is a help in getting new business as well as a source of economy and efficiency in actual operations.



Louis G. Elfers (circle) South Side Electric Shop, Muscatine, Iowa, first prize winner (\$500) and W. P. Collins, Collins Electric Co., Springfield, Mass., second prize winner (\$250) in Edison Lamp Works "Six Shooter" activity. Mrs. Bouck, of B. W. Bouck & Co., Cobbleskill, N. Y., was a \$100 prize winner.

MURLIN

This Lantern,

A Murlin conception, ornaments the Philadelphia General Hospital.

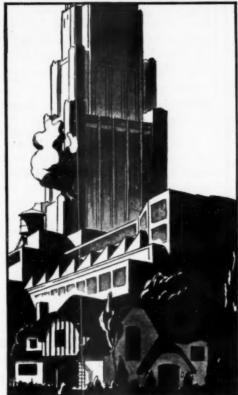
We furnish Bronze or Iron Brackets and Lanterns appropriate for all types of Public Buildings, Apartments, Homes, etc.

Send for the new Murlin catalogue.

No. 1747

MURLIN MANUFACTURING CO.
5420 Paschall Avenue Philadelphia, Pa.
Member Artistic Lighting Equipment Association





Westinghouse equipment for buildings includes:

Circuit Breakers
Elevators
Fans
Fuses
Insulating Materials
Lamps
Lighting Fixtures
Motors and Control
for Ventilating Systems, Pumps, etc.

Panelboards
Ranges
Safety Switches
Solar Glow Heaters
Switchboards
Turbines
Transformers
Watthour Meters
Water Heaters



For bungalow or business building complete electrification from a single source ...

The towering downtown structure and the suburban dwelling have this modern problem in common:

Both need reliable electric installations to make them fit the requirements for which they were designed.

Both can have complete electrifications of the same high quality and from the same responsible source—Electrifications by Westinghouse.

Westinghouse has designed and manufactured complete electrical equipment for many of the leading buildings of the country. Through the widespread Westinghouse organization all the equipment can be supplied, from lamps to elevator equipment, from panelboards to pump motors—for the complete electrification of any building, large or small.

Detailed data on all Westinghouse products is available to any one charged with the responsibility for equipping modern buildings. And there is a Westinghouse building specialist available within easy call of any office.

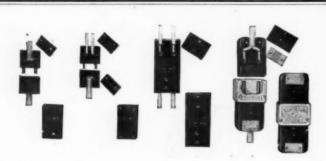
Write for the new Westinghouse publication, "Building in the Electrical Age."

WESTINGHOUSE ELECTRIC & MANUFACTURING CO. EAST PITTSBURGH, PA. OFFICES IN PRINCIPAL CITIES

Westinghouse

Complete electrification for modern buildings





Pin-Plug Connectors

FOR quickly and securely connecting portable lighting units, portable electric tools, and other electrical devices to supply lines—available in a complete range of sizes; two-pole, from 5 to 200 amperes, 250 volts; also single-pole, three-pole, four-pole, multiple circuit, and branch-off connectors in various sizes.

OTHER KLIEGL LIGHTING SPECIALTIES

Borderlights Cove Lights Footlights Color Lighting Exit Signs Aisle Lights Step Lights

Floor Pockets Wall Pockets Panel Boards Floodlights Spotlights Music Stands Scenic Effects

for Descriptive Literature write

KLIEGL BROS

Universal Electric Stage Lighting Co., Inc.

321 WEST 50th STREET NEW YORK, N.Y.

No More Smoked Ceilings



IDEAL Universal

WIRE CONNECTORS

eliminate the blow torch!

One size fits all roughing or fixture joints
Double current carrying capacity
Write today for free sample

	Ideal Commutator Dresser Co. 1041 Park Ave.,	329
New	Sycamore, Illinois.	0
Low	Please send me sample, new prices and comple formation regarding Ideal Universal Wire Conn	
Price	NY.	

Address
CityState

Rural Line Construction

A pamphlet on recommended practices for design and construction of rural lines has been published by the National Electric Light Association. Contractors doing this class of work should find this pamphlet very helpful. It may be secured from the Association's headquarters, 420 Lexington Avenue, New York City, at a price of forty cents.

Electrical Construction Accidents in New York

A study of accidents in the construction industry of New York made by the State Industrial Commission revealed the following figures for the electrical construction industry:

Year										ż	1	CC	idents
1924									0				350
1925													481
1926													596
1927				*									624
1928													522

To Work with Contractors on Red Seal

The Pittsburgh Electrical League has worked out a plan to furnish electrical contractors with the names and addresses of prospective builders and home owners that are Red Seal prospects. The league proposes to study the building reports daily and send to the contractors the information regarding construction in their neighborhood so that the members may be able to be on the job early. The plan is as follows:

From the names and addresses of prospective builders and home owners the league selects those jobs that are good Red Seal prospects. Each prospect is sent a brief letter designed to make him read a booklet, enclosed with the letter, which effectively introduces the Red Seal idea.

On the same day that this mailing is made to the prospect, a duplex self-addressed and stamped postcard is sent to a contractor doing business in the neighborhood of the prospect.

One part of this card gives the contractor complete data on the prospective job, and makes a convenient file-card for the contractor to keep track of his calls and the results of his interviews with the prospect.

The other part of the postcard is to be returned to the league office within a week of its receipt, and is to contain the result of the contractor's interviews, to date, with

the prospect.

Where two or more contractors are doing business in a certain neighborhood, the prospects will be divided equally among them, except that contractors who do not follow the system properly will be dropped from the list.

Luckie New Houston City Electrician

Jack S. Luckie has been appointed city electrician of Houston, Tex., succeeding the late Clarence George.

For twenty-eight years Mr. Luckie has been connected with the city electrical department, working under Mr. George during that time. He was foreman in charge of electrical installation and operation under Mr. George for more than fifteen years. Since the death of his chief, Mr. Luckie has served as acting city electrician.

Fined for Faking Ground Connections

An electrical contractor of Louisville, Ky., has been fined \$10.00 each in five cases of faking ground connections. He was indicted in nine cases but four were dismissed.

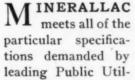
The Louisville ordinance requires that the system grounding conductor be enclosed in conduit for protection. This conduit if rigidly connected to service switch box or service pipe, and bonded to water pipe, may also serve as conductor grounding equipment.

The contractor in question, ran the ground pipe in the usual way, from switch box to the water pipe, but instead of pulling the No. 8 s y s t e m grounding conductor through the conduit, he removed the insulation from short pieces of wire and stuck them in each end of the pipe. Then, to get contact for the inspector's test, he placed small wooden plugs in the pipe to hold the wire against the conduit.



High Tension Insulating Compounds

Approved by LARGEST Public Utility Companies





ity Companies. It is a material having high dielectric strength and insulating resistance between conductors, and from the conductors to the ground; it thoroughly binds itself through the cable insulation and will not crack or pull away in very cold weather, or flow too readily in hot weather. It displaces all moisture, air and gas, eliminates all voids and remains practically intact or without change in volume.

Minerallac is made for all purposes

—different grades for different applications and easy to apply. It is excellent for filling in cable joints, filling potheads or similar receptacles. Transformer coils impregnated with No. 2-A Minerallac will effectively prevent the absorption of any moisture and yet allow the oil to act as a cooling agent. It is recommended for use in telephone lines for the elimination of circuit leaks—for insulation of low voltage apparatus and appliances—for protection of coils and exposed parts.

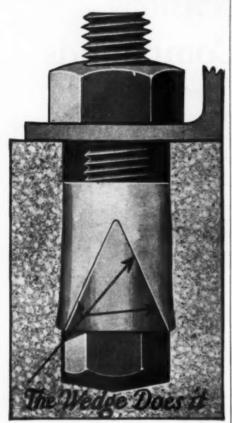
Also manufacturers of cable and conduit hangers carrying the approval of the Underwriters' Laboratories—Jiffy clips for hanging pipe, conduit and lead covered cable—Altman Desk and Table Pushes, round and rectangular in different styles and finishes.

HELPFUL SALES LITERATURE Gladly Mailed Upon Request

MINERALLAC FLECTRIC COMPANY

25 No. Peoria St. CHICAGO, ILLINOIS

E-Z Bolt Anchors Can't Pull Out



These labor and money saving bolt anchors should be a part of every electrical contractor's stock. They are ideal for fastening motors, signs, boxes, pipe hangers, signal lights, brackets, railings, etc.

E-Z Bolt Anchors

Assure Easier Installations chorage made before work appl

Anchorage made before work applied. Save time, work and, of course, money.

Less depth to drill—cuts labor costs.
Only 1 lead and 1 iron part to install.
Vibration only increases the anchor's grip.

Clip coupon now so we can send free sample

City	Address City State Kempton Mfg. Corp. 148 West 23rd Street
State	State
	Kempton Mfg. Corp.

Third Wire Sheathed Cable

The prices of sheathed cable with the bare third wire for grounding purposes is slightly higher than that without the third wire. Prices on both types will be found in the Resale Price Section, PL-9.

Utah League Promotes Wiring

During 1928 there were prepared by the lighting service bureau of The Electrical League of Utah, a total of 282 plans and specifications. There were included in these plans 21,492 lighting outlets. Of these jobs, 234 included 19,128 outlets which were actually installed. It is estimated according to the league's records that the value of the wiring and fixtures for these jobs was \$123,622.

When Special Rules Are Needed

Special rules, when needed, should be put through and then enforced, according to the Michigan Association of Electrical Inspectors. The topic was covered as follows in the association's January bulletin:

"If you need special rulings in your locality, put them through. Make sure they will 'hold water' before you publish them, that they are necessary and make for progress, then make them stick. This can be done by treating all contractors alike.

"We all make mistakes, but the wireman who constantly makes them, and often the same ones over and over, and always hopes and expects to get by with it is a thorn in the inspector's side until the latter can effect a cure.

"This can usually be accomplished by reasonably strict adherence to the rules, and if good judgment is used in asking for changes to be made, you not only establish yourself in the community as a real inspector, but automatically raise the wiring standard.

"Remember, this is not accomplished by asking for a lot of petty changes. Often a job is all right electrically but mechanically very

Rubber Insulated Wires and Cables

Insulating Tapes and Splicing Compounds



Raven
Core
Wires
Grimshaw
Tapes
Competition Tapes

NEW YORK INSULATED WIRE CO.

Main Office 114 Liberty Street, New York City

Factory: Wallingford, Conn.



Keep Up-to-Date

By reading these pages you will acquaint yourself with what is newest and best in electrical supplies and equipment.

When communicating with an advertiser mention

Electrical Contracting

poor; something to be criticised, but not condemned.

"On the other hand, lax inspection is a menace to the industry and the public at large, while no inspection is criminal and should be liable to prosecution."

Low Voltage Deaths

At the last meeting of the American Society of Safety Engineers, S. E. Whiting, chairman of the low-voltage electrical committee presented some interesting figures on deaths from low voltages. These figures were compiled largely from newspaper reports throughout the United States during the three summer months of 1928. They comprise all utilization circuits below 750 volts, including trolley and third-rail circuits of railways, mines and industrial plants.

Recent Low-Voltage Fatalities

(Approximate data only)	
Type of Utilization No.	of
Equipment Deat	ths
Fixed machines, switches and	
wiring industry 5	9
Extension lamps and cords in	
industry and homes 4	3
Portable tools in industry	
and homes 3	3
Home electric equipment	
(other than lamps and	
tools) 2	8
Electric railways 1	7
Miscellany	7
Total18	7
Average Frequency During Sumer Months	
Total cases from June 15, 1928, to Sept. 15, 1928	
Average rate during this	
period10 deaths per w	eek

In presenting these figures Mr. Whiting said:

"Practically all of these cases occur in violation of the National Electrical Code. Why is the Code being violated? Because you and I in our homes, when we want any electrical connections made, do not hire an electrical contractor to come around and charge us \$5.00 or \$10.00 to connect an extension lamp in a safe manner. We go around to some store and buy sockets and the lamp cord, etc., etc., and wire them up ourselves."



What is the purpose of Friction Tape? To insulate exposed connections, of course, and it takes a real electrical Friction Tape to do it—a tape with a genuine rubber backbone on a foundation of tough cotton sheeting.

DUTCH BRAND Friction Tape is made with rubber. Just one layer of this good tape will resist up to 2200 volts. That's safety—you can't expect its equal in ordinary tape. Let the friction tape you use serve its purpose. Play Safe! It's the best economy.

Greater insulating qualities is just another reason why DUTCH BRAND Friction Tape is known as the "Extra-Service" product. By "Extra-Service" is meant a tape which exceeds the rigid specifications of The American Society for Testing Materials, Government agencies and large electrical corporations.

DUTCH BRAND also has longer life, greater strength, and adhesion—besides, it will not fray or ravel. Such a tape is economical.

We invite you to write us for a free test sample.

Jobbers everywhere carry DUTCH BRAND Friction Tape. Available in three color Counter Displays for retail selling.

VAN CLEEF BROS. Established
1910
Manufacturers Friction and Rubber Tape
Woodlawn Ave., 77th to 78th Sts., Chicago, U. S. A.



A RUBBER TAPE OF GREAT STRETCH AND STRENGTH

A clean, perfect fusing rubber tape, a tough long life product. Quality approved by the Underwriters' Laboratories.

Manufacturers News

A department for the announcement of activities of manufacturers that are of interest to contractors, such as changes in executive personnel, branch offices, new products, etc.

Morgan Ellis Promoted

Steel & Tubes, Inc., announces the election of Morgan P. Ellis as vice-president and general manager. Mr. Ellis will be located, effective March 1, at the company's Brooklyn, N. Y., office, to which the headquarters of the electrical division have been moved.

Murray S. Whitfield, who was formerly Cleveland district manager of the Chicago-Jefferson Fuse & Electric Mfg. Co., has been appointed sales manager of this di-

The following representatives have been assigned territories in the eastern district: James J. Coughlin, New York (metropolitan district); C. F. Resseguie, Philadelphia; Thomas D. Mitchell, Baltimore; John R. Wilkins, Boston, and M. F. Stranahan, New York State.

Addition to Durant Factory Completed

A large addition to its factory has been completed by the Durant Mfg. Co., Milwaukee, manufacturers of the "Productimeter" line of wire measuring machines. This addition gives Durant approximately three times its previous manufacturing facilities.

Wire Pioneer Dies

Raphael Eccleton Gallaher, president of the New York Insulated Wire Company, died in New York, on February 10. Mr. Gallaher, who was 78, was a pioneer in the wire and cable industry. In 1884 he organized the New York Insulated Wire Company and held the position of secretary from that time until 1927 when he was elected to the presidency.

With the death of Mr. Gallaher the wire and cable manufacturers have lost one of their most capable leaders and one who merited the respect and admiration of the entire electrical industry.

Fixture Manufacturers Combine

Announcement is made that the Art Craft Fixture Co., Newark, N. J., and the J. H. White Mfg. Co., Brooklyn, N. Y., have combined certain activities of their respective businesses which has resulted in the development of greater manufacturing and designing scope and broader sales and merchandising service for both firms. The fixture lines of both companies are now manufactured at the Art Craft factory in Newark, N. J., and will be marketed by the White selling organization. There is to be no change in the personnel of either company.

B. T. Bechtel Dies

B. T. Bechtel, district sales manager of the Youngstown Sheet & Tube Co., Youngstown, O., died suddenly on Friday, February 1.

Ender Appoints Jaret Sales Manager

Joseph T. Jaret, formerly treasurer of Sun-Ray Lighting Products, Inc., is now sales and general manager of the Ender Mfg. Corp., New York City.

Three new men have been added to the company's sales staff: B. Agman, covering New York state; C. W. Allen, representing in Minnesota and North and South Dakota; Victor Cohen, handling the metropolitan district.

Cutler-Hammer Purchases Trumbull-Vanderpoel

Cutler-Hammer, Inc., Milwaukee, Wis., announces that it has acquired the business of the Trumbull-Vanderpoel Electric Mfg. Co., Bantam, Conn., which will be operated as a subsidiary under its present name.

Assistant Appointed for Display Men

Curtis Lighting, Inc., Chicago, announces the appointment of Stanley E. Kraft as active directing head of the company's store lighting division in Chicago.



NEW WIRE MILL FOR SOUTH—This is the new plant of the Southern States Cable Co., at Mobile, Ala., which started production recently. It is a division of the General Cable Corp. Harry Parker, formerly with the Rome Wire Co. division of this corporation, has been transferred to the Mobile plant as manager and secretary.

Art Metal in New Plant

The Art Metal Co., Cleveland, manufacturers of "Amco" safety holders, has recently moved into its new plant at 1800 E. 38th St. The new plant has practically three times the amount of floor space formerly occupied and much new equipment and machinery has been installed.

The company announces the appointment of the Commercial Electric Supply Co., Toledo, O., as its distributor in that territory.

Lang's Daylight Opens Chicago Office

Lang's Daylight, Inc., Cleveland, O., has opened an office at 53 W. Jackson Blvd., Chicago, in charge of W. C. Bell, who for the past 16 years has been in the sales department of the National Lamp Works.

Issues Floodlighting Bulletin

Bulletin 54 is a recent publication on "Floodlighting" issued by the National Lamp Works at Nela Park, Cleveland. It presents a comprehensive design procedure, together with suggestions on floodlighting effects, equipment, and equipment location. A section on the lighting of railway classification yards is included.

Fullman Has New Eastern Representative

The Fullman Mfg. Co., Latrobe, Pa., announces the appointment of Moncrief & Graf, New York City, as its district sales representative for eastern New York State and northern New Jersey.

Slogan Contest

Cash prizes totaling \$500 will be awarded by the National Electric Light Association and the National Electrical Manufacturers Association for the best slogans to promote the use of electric heat in industry. The first prize will be \$250; second, \$100; third, \$50, and four of \$25 each. Each contestant may submit not more than three slogans, each to be accompanied by an analysis of 100 words or less.







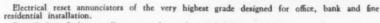
Holtzer-Cabot has designed and built complete signaling systems for some of the largest institutions in the country.



Annunciators

Target or Lamp Indications

Catalogue with latest prices furnished on request.



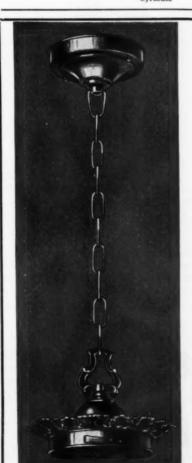
Furnished in flush or wall types or for surface and desk mounting.

Fronts of ornamental bronze to harmonize with architectural design of surrounding fittings.

Compact in size and finished to meet the most exacting requirements.

The Holtzer-Cabot Electric Co.

Boston Chicago New York Baltimore Detroit
Philadelphia Cleveland Syracuse Kansas City



SEND— For the New

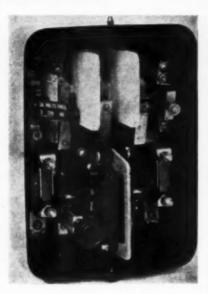


Catalog of Moneymakers

The new quick-selling hanger shown at the left is only one of many moneymaking items shown in our catalog. This hanger has special cast loop (pat. app. for) and flaring cast ring that make it look massive and extremely rich. It takes instantly with 80% of your prospects. Your jobber stocks it. Get price and discount from our catalog. We will send one for the coupon. Mail it now.

This Coupon Brings Catalog

New Electrical Products



The General Electric Co., Schenectady, N. Y., announces the addition of the CR-7006-D-26-A switch to its line of general-purpose starters for small alternating-current motors. This is a three-and four-pole magnetic switch with self-contained "start" and-"stop" stations incorporating features for overload protection and undervoltage protection or release. It is used for starting and protecting small alternating-current motors that can be thrown directly on the line. It consists of a triple-pole, barrier-type contactor and a double-coil temperature overload relay, also starting and stopping contacts ordinarily provided by a remote-control push-button station.



This tool which is being marketed by the American Pipe Tool Co., Chicago, is a combination of three tools in one: 1. It is a pipe vise of from ½ in. to 2 in. capacity. 2. It may be used to bend conduit or pipe up to and including ¾ in. 3. It is also designed for use as a ceiling plate holder, taking all standard sizes of plates or ceiling boxes, for reaming holes. The notches in the latch when tightened hold the plate in firm position.



Here are shown three new products of the Crouse-Hinds Co., Syracuse, N. Y. The No. 14597 grounding bushing is designed to take the place of the ordinary bushing within the cabinet, all grounding leads being enclosed and the fire hazard confined to the interior of the box and the jumpers, No. 14593 of which is illustrated, protected from mechanical injury. The bushings are made of brass in two types—locking and non-locking. The type CGB connector with lead sleeve shown is for use when bonding flexible conduit or armored cable to a box.





A small single pole no fuse tumbler switch for protecting fractional H. P. motors against overload is announced by the Trumbull Electric Mfg. Co., Plainville, Conn. This new "T.T." (thermostatic tumbler) switch may be had in three types—surface, flush and the switch alone. The first two are illustrated. Handle trips to "off" position on an overload. To reset it is simply necessary to throw the handle "on" when the thermostatic metal has cooled.



The Chicago Pneumatic Tool Co., New York City, is marketing the Little Giant electric hammer drill, equipped with a universal motor operating on 115 or 230 volts. According to the manufacturer, it is particularly adapted for close quarter work and for drilling in concrete and soft stone.



This adaptable hanger offered by the Art Metal Co., Cleveland, has special cast loop and flaring ornament giving a massive and rich appearance. It is finished in statuary bronze with gold effect on cast parts. It incorporates the "Amco" safety holder feature which locks glassware into position by simply placing the globe into fitter and closing the lever on holder.



The Chicago-Jefferson Fuse & Electric Co., Chicago, is now manufacturing its line of Powerlets in the threadless type. These are made of malleable iron in one piece, no seams, welds or inserts. They fit snugly against a flat surface without turning and are adaptable to either standard conduit or the new metallic tubing (thin wall conduit), a special clamping ring being necessary for the latter. These fittings are approved by the Underwriters' Laboratories and are obtainable in sizes from ½ in. to 2 in.

TELLING **TESTIMONIAL**

SPRING-WING TOGGLE BOLTS 26,184,971

toggles sold in the past few years, thru the Electrical, Hardware and Plumbing Supply Jobbers of the U.S.A. and Canada.

PAINE TOGGLES are known over half way around the world. They have gained this reputation solely on their merit. They are nationally advertised and cataloged by leading jobbers from coast to coast.

Samples and prices on request.



The PAINE Company

2947 Carroll Av Chicago, Ill. 79 4 Barclay St. NewYork, N.Y.

The cliffy Line

Jiffy Tools Reduce Costs!

We guarantee your satisfaction. Order any tool illustrated on the margin, on approval. If YOU are not satisfied return the material at our expense.



Nipple Chuck

A Bulletin describ-ing the complete line in detail will be mailed upon re-quest. Fill in the coupon below or send in your order ON APPROVAL.



Paul W. Koch & Company 25 So. Wells St., Chicago

	Send information regarding Free Trial.
	Send the "JIFFY LINE" Bulletin.
١	Name
l	Firm
l	Street
	Address

"Established 1915"

Day-Brite in New Factory

The Day-Brite Reflector Co., St. Louis, is now located in its new factory and office building at 3825 Laclede Ave.

Four Control Manufacturers Merge

Announcement is made of the consolidation of the Leachwood Co., Janesville, Wis., the Time-O-Stat Corp., Milwaukee, Wis., the Absolute Con-Tac-Tor Corp., Elkhart, Ind., and the Cramblet Engineering Corp., Milwaukee, Wis., forming the Time-O-Stat Controls The new corporation will have its main offices at Elkhart, Ind., as soon as the planned enlargements of the main plant have been completed. A new laboratory for experimental and developmental work will be erected.

The officers are: Julius K. Luthe, president and treasurer; A. I. Wallace, Paul K. Cramblet, E. J. Leach and Roy W. Johnson, vice-presidents.

P. & S. Issues New Dealer's Helps

Pass & Seymour, Inc., announces the publication of three new units in their dealer's help campaign. A general catalogue that covers the full range of the company's products, together with a special Alabax porcelain lighting fixture manual in color are designed both as a ready reference for dealers and as a guide for consumers in the selection of equipment. A folder suitable for dealer imprint and general distribution is also supplied.

The Cincinnati-Victor Co., Cincinnati, O., has appointed the Apartment Necessities Co. its distributor in the Detroit territory. The Pursell Co., Cincinnati, will handle southwest Ohio, including Lima, Dayton and Cincinnati, also three northern counties in Kentucky and three southeastern counties in Indiana.

Bulletin No. 158 has been issued by the Wagner Electric Corp., St. Louis, on its small vertical motors, covering all types in ratings from 1/8 to 11/2 H. P.



"I OK'D IT LONG AGO"

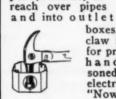
New "MASTER-SIZE" Wiremold opens up big field of industrial and commercial installation. Wiremold "BEAM-STRAP" makes it almost as easy to lay wires 'round beams as on surface. Other new features and sales helps. Write for catalog and interesting details.

THE WIREMOLD COMPANY

Hartford, Conn.



-this hammer is going over big! Itis new, useful, and sells to you direct for only A N elec-trical mechanic designed this hammer. He gave it a long poll (2 inches) to



boxes. The claw is built for prying; the handle is seasoned Hickory. One electrician writes, "Now I wouldn't be without it in my tool

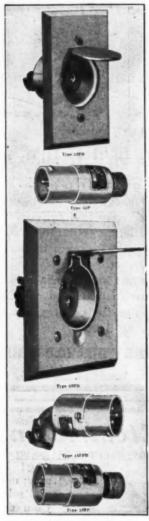
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kit!" You'll say the same-or your money back!

SEND COUPON TODAY!

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New Electrical Products

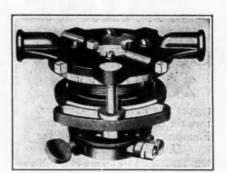


The Ralco Mfg. Co., Chicago, is marketing types 53FR and 52FR heavy duty flush receptacles. The former is for electrical ranges, warming tables, etc., and the latter for two conductor services. The plugs have heavy shell of drawn steel treated to prevent corrosion. Contacts are fully protected and strain is taken off contacts, insulators and binding screws. Receptacles can be mounted on standard outlet box cover.



The Durant Mfg. Co., of Milwaukee, offers the Model L-10 wire measuring machine. The speed runs as high as 890 R. P. M. The standard model records in feet.

The Borden Co., Warren, O., is making the No. 11 plain and No. 11A ratchet die stocks, No. 11 being shown here. These are self-contained, having one set of dies which are quickly set to thread 1, 1½, 1½ or 2 in. conduit. No time is lost in changing dies as they are always in the tool. As the die head and threaded barrel are two separate parts it is only necessary to replace the threaded barrel when repairs are needed. The pipe gripping end, or work holder, centers the pipe accurately, but can be set to cut crooked (Drip) threads.





This "Chip Chaser" announced by the Oster Mfg. Co., Cleveland, is a small ratchet die-stock with the advantage of a quick changing die head for each size pipe. As the name indicates the dies are built to permit the chips to fall away as they curl off the pipe. Finger tip control allows for easy operation, a flip of the finger changing it from forward to reverse or to neutral. It is made of pressed steel.



The Beaver Mfg. Co., Newark, N. J., has just completed the development of two new flush receptacles as illustrated. Both the single and duplex types are of bakelite. Slots are provided for both tandem and parallel bladed caps and wires attach to the sides to afford easy inspection after the receptacle is mounted in the outlet box.



The Stearns Motor Mfg. Co., of Ludington, Mich., is announcing a new 110-volt hand started gasoline generator. No batteries are used, but it can be converted into a battery set by using a 110-volt battery. It is equipped with a 1½ KW 110-volt generator and a gasoline engine. Net weight 360 lbs.



The National Electric Products Co., Pittsburgh, Pa., has developed the No. 2163 squeeze type cable connector using "Bondnuts" which will tighten permanently against box wall due to the concave shape of the connector. The sharp bonding spurs save the labor of scraping enamel around knockout by automatically cutting through it. Both "Bondnuts" and connectors are sherardized.





Ravel?

No indeed— It Sticks It's Strong It's Safe because— It's O. K.!

Ask Your Jobber About O.K. or Write us for a Sample

APPLETON RUBBER CO. Franklin, Mass.

Chicago Steel Tank Opens Minneapolis Branch

Announcement is made of the opening of an office in Minneapolis, Minn., at 516 Third Ave., So., by the Chicago Steel Tank Co., Chicago. C. W. Allen will be in charge, covering Minnesota, Wisconsin, South Dakota and North Dakota.

This company also announces the appointment of C. Dent Slaughter as its representative on the Pacific Coast.

Standard Underground Cable Announces New Personnel

The standard Underground Cable Company, Division of General Cable Corp., announces the following changes in sales personnel and in branch office locations:

C. J. Marsh, vice president of the Standard Division, also manager of the New York sales office, has been transferred to the General Cable Corporation to supervise the purchase of metals. R. S. Hopkins, assistant manager, has been advanced to manager of the New York office and O. G. Miller made assistant manager.

The Atlanta, Ga., office, formerly a sub-office of Washington, D. C., has been made a main branch sales office with E. B. Hook, Jr., as manager and J. A. Peacock district manager. District sales offices, reporting to the Atlanta office, have been opened in Birmingham, Ala., and Charlotte, N. C., with M. L. Tice and W. D. Hampton as district managers. The address of the Atlanta office has been changed from Candler Bldg. to Healey Bldg. The Birmingham office is located in the Watts Bldg. and the Charlotte office in the First National Bank Bldg.

Edw. Kerschner, formerly manager at Washington, D. C., was transferred to the Chicago office, now in the Bankers Bldg., as manager some time ago, and H. C. Richardson has been advanced to manager of the Washington office. Mr. E. J. Pietzcker, formerly manager of both the Chicago and St. Louis offices, is devoting his entire time to the St. Louis office, which has moved to the Ambassador Building.



BERTHOLD

SWITCH and PANEL BOARDS for LIGHT and POWER

Berthold "Selectrolite" System of Lighting Control for theatres, auditoriums, lodgehalls, etc.

GUS BERTHOLD ELECTRIC CO. 555 W. MONROE ST. CHICAGO, ILL

Steel Cabinets



Stage Equipment

"DETROIT" RUBBER COVERED WIRES

(Reg. U. S. Pat. Office.)

RUBBER INSULATED
WIRES AND CABLES

LAMP CORDS

AUTOMOBILE WIRES

PARKWAY CABLES

LEAD ENCASED
RUBBER INSULATED
WIRES AND CABLES

UNIDUCT ARMORED WIRES

FLEXIBLE METALLIC CONDUIT

Detroit Insulated Wire Company
Detroit, Mich.

Division of General Cable Corporation

New Electrical Products

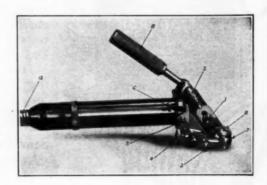


A cross the line air motor starter, type A-30, has been developed by the Conduit Electrical Mfg. Corp., Boston, involving a new principle of arc prevention. Heretofore the arc with its accompanying effects of gas and contact burning has been assumed unavoidable and efforts have been directed to extinguishing the arc only after its formation. This starter operates to prevent the arc from forming by preventing ionization when interrupting a circuit. On interruption of currents six to seven times its normal rating, tests on the starter have shown, it is stated, that there is only a spark and no gas or contact burning. The starter is designed for use with squirrel cage induction motors up to 20 H. P., 550 and 440 volts; 15 H. P., 220 volts, and 7½ H. P., 110 volts, and is furnished with thermal relays for time-lag overload protection and arranged for under-voltage protection.



This "Midget" set of wrenches recently placed on the market by the J. H. Williams & Co., Buffalo, N. Y., contains seven "Super-renches" with openings of from 7/32 in. to ½ in., each having two openings of the same size, one set at 15 degrees and the other at 75 degrees. These wrenches, which are drop-forged from chrome molybdenum steel and finished in rust-proof chrome plate, are packed in a black leatherette case which measures 5 by 4 by 36 in closed.

A new mica undercutter is being manufactured by the Ideal Commutator Dresser Co., Sycamore, Ill., which operates in a space only 3½ in. wide thereby eliminating the necessity of dismantling brushes, brush boxes, etc., and their reassembling. This feature, according to the manufacturer, saves from one to three hours on every job and avoids lengthy shut-downs. This new undercutter, according to the manufacturer, will not heat, jump or chatter.





A new double unit wiring reel is presented by the Hykon Mfg. Co., Alliance, O., which features a new base construction designed to lighten, strengthen and make the reel more compact and at the same time adaptable to larger diameter coils. The danger of over-balancing and tipping is also eliminated by this new base, it is claimed This reel will take reels of No. 8 or smaller wire and it can be obtained in both 15 and 18 in. units.



The Killark Electric Mfg. Co., St. Louis, Mo., has brought out a combination of bell transformer and cutout in a steel box thus permitting the contractor to install a transformer without exposing 110-volt wires.

The General Electric Co. has developed a slot insulation paper for which is claimed such features as resistance to folding, high tearing strength, high tensile strength and high dielectric value. It is listed as No. 1850.



The Yaxley Mfg. Co., Chicago, has placed on the market a complete, self-contained burglar alarm, which works on the closed circuit system. It includes the alarm cabinet, with sensitive relay, bell, batteries and testing key and the trap, which consists of a swiveling receptacle and jack, insulated flexible conductor, attachment plug and an automatic reel. The trap may be set to extend across a door opening or the conductor may be looped over a door knob, threaded through a window lift, attached to a window shade or curtain.

Concrete Inserts Save Time in Conduit Installation



Pound them in the form; the con-crete holds them solid; hang the pipe below.

Send for Bulletin or Sample

Commonwealth Electric Co. 417 Broadway, St. Paul, Minn.

ESTIMATOR'S TIME SAVER



Every estimator's tool kit should have 1. Botometer .. \$4.50 2. Tallying Machine ... \$4.50 for taking off quantities of material quickly and accurately. Used by leading estimators. GUARANTEED to satisfy you or your money back.
Send \$4.50 each for Rotometer or Tally Machine, postpaid.

The Peerless Blue Print Co.

341-347 Fifth Ave., New York City





On a Vertical On a Herizontal Conduit Conduit

ELECTROLETS

Service entrance fittings that will go on the top of a vertical conduit, or on the end of a horizontal conduit.

Send for Booklet KILLARK ELECTRIC MFG. CO. 3940 Easton Ave., St. Louis, Mo.



THE RAWLPLUG CO., INC. 66 West Broadway, New York City

Branches in 25 Cities Write for Bulletin B-201

Mr. Arthur Z. Barnes has been appointed district manager at Dallas, Texas, with offices in the Allen Building. He was formerly with the General Electric Co. of Texas.

N. E. M. A. to Meet in May

The spring meeting of the National Electrical Manufacturers Association will be held at The Homestead, Hot Springs, Va., May 20-25, 1929.

Rigby to Represent Taplet

Edward Rigby has been appointed representative in the New England territory by the Taplet Mfg. Co., Philadelphia. He replaces Albert Mann who represented the company for many years in that territory but who has now retired from the electrical industry.

* * *

The Federal Steel Products Co., Newark, N. J., announces the appointment of the Hastings Sales Co. as its representative in Boston, replacing James H. Healey. The Electric Service Device Co. will handle the Philadelphia territory formerly covered by Fred W. Carry, who has been transferred to the Newark office. He will travel northern New Jersey as a missionary man. Warehouse stocks will be maintained at both Boston and Philadelphia.

A handy booklet has been issued by Steel & Tubes, Inc., Cleveland, on its new product, "Steeltubes," which enumerates the various advantages of this new thin wall conduit

Classified Advertising

Wanted: A large Chicago Electrical Contractor desires to employ an experienced Estimator having thorough knowledge of all branches of Electric work. Must be a capable Engineer. Good salary and future. State experience and age. Confidential. Box 544, ELECTRICAL CONTRACTING, 53 W. Jackson Blvd., Chicago.

Wanted: Man in the east who under-stands electrical contracting, knows wir-ing practices thoroughly and has ambi-tion to write. Write for appointment to Electrical Trade Publishing Co., 280 Madison Avenue, New York City.

E-Z WIRE STRIPPER

A HANDY TOOL



This inexpensive tool strips wire of 10 to 20 gauge 20 times faster than usual methods.

MONEY BACK A MONEY BACK GUARANTEE with every E-Z Wire Strip-Send for yours

\$500 LIST

PYRAMID PRODUCTS CO.

2313 South State Street

Chicago, Ill.

Wrigley Toggle Bolts



"Wrigley For Quality"

Made of heavier gauge steel.

Can be put through smaller holes than the ordinary toggle

First Toggle Bolt

THE THOMAS WRIGLEY CO. 504 Sherman St., Chicago, Ill.

General Electric Supply Corp.

EDISON MAZDA LAMPS ELECTRICAL AND RADIO SUPPLIES

BALTIMORE RICHMOND NORFOLK CHARLOTTE

Distributors for General Electric Company, Radio Corporation of America and other large and reputable manufacturers.

New Conduit Type Cable Support



A Simple Two Piece Cable Support for Vertical Runs.

Pamphlet Mailed Upon Request.

O. Z. Cable Support Co., Inc.

45 Bergen Street, Brooklyn, N. Y.

SINCE 1895



MORE NEW OUTLET BOX DEVICES

WEBER OUTLET BOX **SWITCHES**

5 Amp. 125 V. 3 Amp. 250 V. Rating

> Approved by Underwriters' Laboratories, February 24, 1928

Cat.

No. S.P., 31/4 inch S.P., 4 inch 3-Pt., 31/4 inch 2646 2647 2648 2649 3-Pt., 4 inch

A line of "dependable" toggle switches permanently attached to iron box covers. Binding screw terminals are exposed in the rear, as in sign receptacles. Covers may be black, galvanized or brass lacquer.

Sold Through Weber distributors. Send for Sample.

HENRY D. SEARS

General Soles Agent

60 BOYLSTON STREET
BOSTON MASSACHUSETTS



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Union Electric Mfg, Co110
V
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Y
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The Modern Fixture Stud

With two simple motions any outlet box is equipped with a fixture stud when a Kwikon "No Bolt" Fixture Stud is used.

The Kwikon "No Bolt" Stud is slipped into position while the nut is fastened with one spin. The Kwikon "No Bolt" Stud is one of the best time savers on any wiring job and its use is simply good judgment.

Besides being time savers, these economical studs fit better, make a more rigid job and allow more wiring space in the box.

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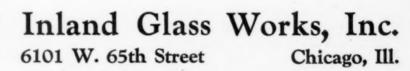
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THE "MODERNAIRE" 8014-D1



6502 D206



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